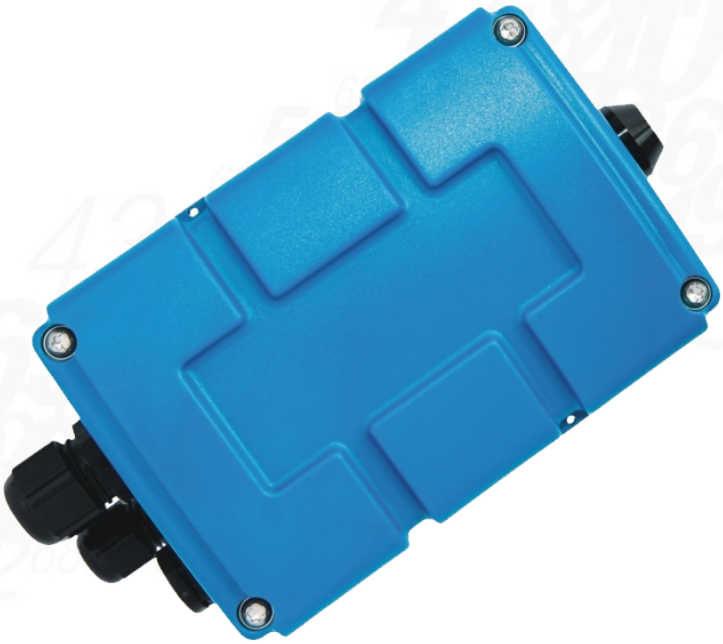
Manual for the portable device myDatalogEASY



Rev. 04 valid from:

- Firmware version: 02v004
- Modem version: 02v006 bzw. 03v004
- Hardware version: 2.2

CE

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Chapter 2 Declaration of conformity

CE

Konformitätserklärung
Declaration of Conformity
Déclaration de conformité

Microtronics at

Microtronics Engineering GmbH
Hauptstrasse 7
A-3244 Ruprechtshofen
www.microtronics.at

erklärt in alleiniger Verantwortung, dass das Produkt /
declare under our sole responsibility that our product /
déclare sous sa seule responsabilité que le produit

myDatalogEASY

auf das sich diese Erklärung bezieht, mit den folgenden Normen übereinstimmt /
to which this declaration relates is in comformity with the following standards /
auquel se réfère cette déclaration est conforme aux normes

EN61326-1 : 2006,
EN61010-1 : 2001

gemäß den Bestimmungen der Richtlinien /
following the provision of Directives /
conformément aux dispositions des directives

2004/108/EG EMC Directive
2006/95/EG LVD Directive

Ruprechtshofen, 29.01.2010

.....
Buber Hans-Peter, Managing Director

Chapter 3 Technical data

Voltage supply	Battery pack BP434R: 2 x Li-SOCl2 -Cells fully fabricated with 26Ah Accu pack AP413D+: 2 x LiIon - Accu cell fully fabricated with 13,6Ah
Charging voltage (only when using an accu pack)	7...30VDC (typically 170mA@12V)
Housing	Material: Luran Weight: 400g (without accu or battery) Protection class: IP66 Dimensions (WHD): 86x165x64mm (without antenna)
Operating temperature	-20...+60°C, 15...90%rH non-condensing
Storage temperature	-30...+85°C
Display	LED for indicating the operating mode and error code. (Only visible when the housing cover is open)
Operation	Button (with the housing cover open) or solenoid switch (with the housing cover closed) to initiate the ALOHA transmission mode
Antenna connection	FME
Universal inputs	4 x analogue or digital Modes: • 0 to 20mA: Resolution 6µA, max. 22,5mA, load 100Ω • 4 to 20mA: Resolution 6µA, max. 22,5mA, load 100Ω • 0 to 2V: Resolution 610µV, max. 2,5V, load 220k1 • 0 to 10V: Resolution 8,3mV, max. 32V, load 8k9 • PWM: 1...99%, max. 100Hz, min. impulse length 1ms, load 8k9 • Frequency: 1...1000Hz, 8k9 • Digital: max. 32V, low ‹1,36V, high ›2,73V, load 8k9 • Digital LP: max. V_{Batt}, low ‹100mV, high ›200mV, load 220k1 • Day counter: min. impulse length 20ms, load 8k9 • Interval counter: min. impulse length 20ms, load 8k9 Additional information is provided in "Technical details regarding the universal inputs" auf Seite 32.
External temperature sensor	1 x Cable temperature sensor 3m(206.638) (Optional equipment)

Outputs	1 x switchable sensor supply • Standard: 15...19,5VDC, max. 66mA • Order option: 24...31VDC, max. 41mA 1 x isolated switch contact • I_{max}: 130mA • U_{max}: 32V • R_{on}: 35Ω • f_{max}: 500Hz Additional information is provided in "Technical details regarding the outputs " auf Seite 33.
Data memory	Internal flash memory for up to 33.460 measurement cycles
Data type	f16 (16 Bit floating point)
Data transmission	By means of GSM/GPRS quad-band modem to the relevant myDataweb server
SIM	The myDatalogEASY is equipped with an integrated SIM chip.
Monthly data volume	‹4 MB for two minute measurement cycle and 120 minute transmission cycle

Chapter 4 General specifications

The information in this manual has been compiled with great care and to the best of our knowledge. The manufacturer, however, assumes no liability for any incorrect specifications that may possibly occur in this manual. The manufacturer is not responsible for direct, indirect, accidental or consequential damages which arise from errors or omissions in this manual even if advised of the possibility of such damages. In the process of continuous product development, the manufacturer reserves the right to make improvements to this manual and the products described in it at any time and without prior notification or obligation.

> ***Note:*** *The specifications of this manual are valid as of the versions listed on the title page. Revised specifications of this manual, as well as software and driver updates are available in the service area of the myDataweb-Server.*

4.1 Translation

For deliveries in the countries of the European Economic Area, the manual is to be translated into the respective language of the country of the user. Should discrepancies occur in the translated text, the original manual (German) is to be referred to for clarification or the manufacturer is to be contacted.

4.2 Copyright

The copying, distribution and utilisation of this document as well as the communication of its contents to others without expressed authorisation is prohibited. Contraventions are liable to compensation. All rights reserved.

4.3 General descriptive names

The use of general descriptive names, trade names, trademarks and the like in this manual does not entitle the reader to assume they may be used freely by everyone. They are often protected registered trademarks even if not marked as such.

4.4 Safety instructions

For the connection, commissioning and operation of the myDatalogEASY , the following information and higher legal regulations of the country (e.g. ÖVE), such as valid EX regulations as well as the applicable safety and accident prevention regulations for the respective application case must be observed.

Please read this manual completely before unpacking, setting up or operating this device. Observe all hazard, danger and warning information. Non-observance can lead to serious injuries to the operator and/or damage to the device.

Ensure that the safety equipment of this measurement device is not impaired. Install and use the measuring system only in the manner and method described in this manual.

> ***Important note:*** *The manufacturer's products that are designed for use outside have extensive protection against penetrating moisture and dirt. If these products are connected by cables with connectors rather than permanently installed cables to the power supply or sensors, the susceptibility of the connector and socket to moisture and dirt penetration are significantly higher. The operator is responsible for protecting the connector and socket against penetrating moisture and dirt in a suitable way and complying with local safety regulations.*

4.4.1 Use of the hazard warnings



DANGER:
Indicates a potential or threatening hazardous situation that will result in death or serious injuries if not avoided.



WARNING:
Indicates a potential or threatening hazardous situation that can result in death or serious injuries if not avoided.



CAUTION:
Indicates a potential hazardous situation that can result in minor or moderate injury.

> ***Note:*** *Indicates a situation that does not result in any injury to persons.*

> ***Important note:*** *Indicates a situation that can result in damages to this instrument if it is not avoided. Information that must be particularly emphasised.*

> ***Note:*** *Information that supplements the specifications in the main text.*

4.4.2 Safety and preventative measures for handling GSM/GPRS modems

Observe the following safety and preventative measures during all phases of installation, operation, maintenance or repair of a GSM/GPRS modem. The manufacturer shall not be held liable if the customer disregards these preventative measures.



CAUTION:
The GSM/GPRS modem connection may not be used in hazardous environments.

No guarantee of any kind, whether implicit or explicit, is given by the manufacturer and its suppliers for the use with high risk activities.

In addition to the following safety considerations, all directives of the country in which the device is installed must be complied with.

> ***Important note:*** *No liability shall be assumed at any time and under no condition for the connection via a GSM/GPRS modem for whose use radio signals and networks are utilized, The GSM/GPRS modem must be switched on and be operated in an area where sufficient signal strength is present.*

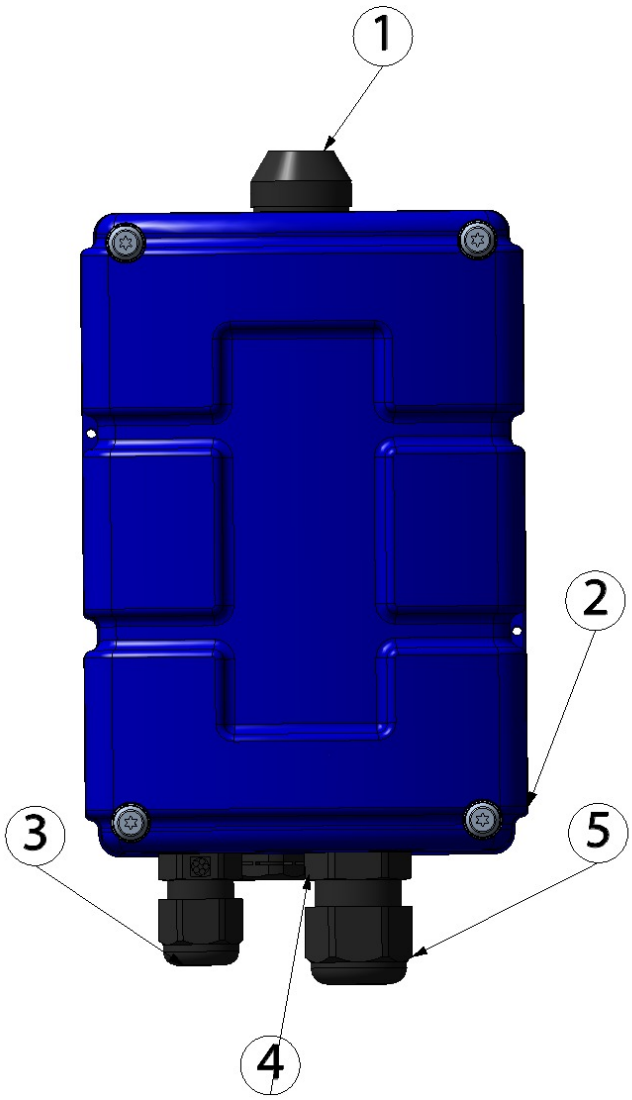
4.4.2.1 Safety and precautionary measures for the GSM/GPRS modem installation

- This device may only be installed by a trained technician who applies the recognised installation practices for a radio frequency transmitter including the of external antennas.
- The device may not be operated in hospitals and/or near medical equipment such as heart pacemakers or hearing aids.
- The device may not be operated in highly flammable areas such as petrol filling stations, fuel storage sites, chemical factories and explosion sites.
- Do not operate the device in the vicinity of flammable gases, vapours or dusts.
- Do not subject the device to strong vibrations or impacts.
- The GSM/GPRS modem can cause interference if it is located near television equipment, radios or computers.
- Do not open the GSM/GPRS modem. Any modification to the equipment is prohibited and shall lead to loss of the operating licence.
- The use of GSM services (SMS messages/data communication/GPRS etc.) may lead to additional costs. The user alone is responsible for any damages and costs resulting through this.
- Do not install the device in any other manner than the one described in the operating instructions. An improper use will invalidate the warranty.

4.4.2.2 Safety measures for installing the antenna

- Only use antennas that are recommended or supplied by the manufacturer.
- The antenna must be installed at a distance of at least 20 cm from individuals.
- The antenna must not be extended outside protected buildings and must be protected against lightning strikes.
- The voltage supply must be switched off before replacing the antenna.

4.5 Overview



Overview myDatalogEASY

1	Antenna connection	4	Pressure compensation
2	Housing cover	5	M20x1.5 cable screw connection (cable diameter of 5 to 10mm)
3	M12x1.5 cable screw connection (cable diameter of 3.5 to 7 mm)		

4.6 Intended use

The portable measurement instrument is used to collect analogue and digital signals. The device can operate without mains power. The measured and recorded data is stored in a non-volatile memory medium. This stored data is sent to a central server for further processing via the mobile network. The device is equipped with an integrated SIM chip for this purpose. The maximum

permissible limit values set out in chapter "Technical data" auf Seite 9 must be observed. The manufacturer shall not be liable for any operational cases that deviate from these limit values and have not been approved by the manufacturer in writing .

> ***Note:*** *This device is exclusively intended to be used for the purposes as described above. Any other use or use beyond what is specified or a modification of the device shall be deemed to be not for the intended purpose and is not permitted without the express written consent of the manufacturer. The manufacturer shall not be held liable for any damages that may result from such unauthorised use or modification. The operator alone bears the associated risk.*
>
> ***Note:*** *The manufacturer is not liable for data loss of any kind if the device is damaged and data is not able to be stored correctly.*
>
> ***Note:*** *The integrated SIM chip provides a mobile communications connection to a variety of international service providers. In order to be able to utilise all functions of the device, you must ensure that the device is located in the service area of one of these service providers. You can find a list of all supported countries and associated service providers under www.microtronics.at/footprint. A Managed Service contract with Microtronics Engineering GmbH is required for use of the mobile data transmission (see www.microtronics.at/managedservice). This includes the provisioning of the mobile communications connection via the network of the service provider included in the above-mentioned list.*

4.7 General product information

The device is a compact, portable instrument for recording and transmitting analogue and digital signals. There are 4 universal inputs available, which can be operated in various analogue and digital modes. Additionally, an one wire bus is available for connecting an external temperature sensor. 2 output channels are also available. One of the two directly switches the sensor supply. The other is a galvanised isolated switch contact. Both output channels can be configured independently so that they can each be switched by the device prior to a measurement (to supply the sensor) or they can be switched wirelessly from a central location. All of the input measurement data is temporarily saved to an internal data memory along with the output statuses and are then wirelessly transmitted to a central location at freely selected intervals. The device is also configured via this connection. The device is equipped with an integrated SIM chip. If the optional SIM/USB option is available, the device can also be configured via the USB interface.

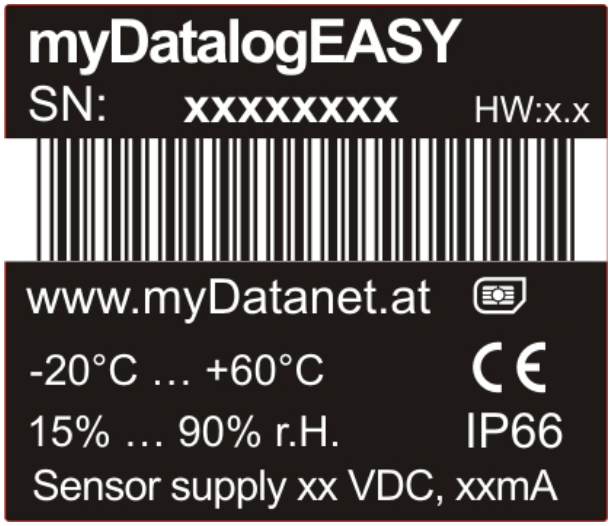
4.8 Device labelling

The specifications in this manual apply exclusively to the device type myDatalogEASY . The type plate is located on the right side of the device and includes the following specifications:

- Type designation
- Serial number
- Hardware revision
- Environmental conditions during operation

- CE marking
- Protection class
- Electrical parameters for the installed switchable sensor supply

The correct specification of the type designation and serial number is important for all queries and spare part orders. Only then can we process requests promptly and properly.



myDatalogEASY type plate

Note: This symbol indicates that the myDatalogEASY is equipped with an integrated SIM chip.

Note: These operating instructions are part of the device and must be available for the user at all times. The safety instructions included therein must be observed.

DANGER:
It is strictly prohibited to disable the safety equipment or modify its mode of operation.

4.9 Installation of replacement and wear parts

Please be advised that replacement and accessory parts that have not been supplied by the manufacturer have also not been inspected or approved by it. Installing or using such products and similar can constructively modify the specified properties of the device in a negative way. The manufacturer shall not be liable for any damages that arise from the use of non-original parts and non-original accessory parts.

4.10 Storage of the product

Ensure that all of the relevant data has been transmitted to the myDataweb server before storing the myDatalogEASY . If necessary initiate the ALOHA transmission mode using the magnetic contact (see "ALOHA transmission mode" auf Seite 19) and then check again that all relevant data has been transmitted. If you are using an external charging voltage to charge the accu pack of the myDatalogEASY , disconnect this from the device before removing the accu or battery pack. The remaining cables and antenna can then be removed. Store the myDatalogEASY and accu or battery pack in the compartments provided in the original packaging.

The configuration and most recently determined data are retained. However, the system clock will not continue to work without an energy supply. This means that following recommissioning, the time must be synchronised to ensure that measurement and log data timestamps are correct. This occurs automatically either when the first connection is established with the myDataweb server or when the myDatalogEASY is connected to the PC. For this purpose, the optional SIM/USB option and myDatanetDeviceConfig configuration program are required.

4.11 Obligation of the operator



WARNING:
In the EEA (European Economic Area), the national implementation of the framework directive (89/391/EEC) as well as the associated specific directives and from these in particular, the directive (89/655/EEC) about the minimum safety and health requirements for use of work equipment by workers at work, each in their respective version are to be complied with.

The operator must obtain the local operating licence and the associated documents.

In addition, the operator must comply with the local legal requirements for

- the safety of the personnel (accident prevention measures)
- the safety of the equipment (protective equipment and maintenance)
- the product disposal (waste disposal law)
- the material disposal (waste disposal law)
- the cleaning (cleaning agents and disposal)
- and the environmental protection amendments.

Before commissioning, the operator must ensure that the installation and commissioning – provided these were performed by the operator himself – are in compliance with the local regulations.

Chapter 5 Functioning principle

5.1 ALOHA transmission mode

ALOHA transmission mode is a special connection mode whereby the myDatalogEASY creates a connection to the myDataweb server for a period of time configured using the "Basic settings" configuration section (see "Aloha/wake-up duration" in chapter "Basic settings" auf Seite 68).

There are two options for initiating the ALOHA transmission mode:

- Directly on the device by means of the solenoid switch (see "Solenoid switch" auf Seite 43) or button (see "Buttons" auf Seite 42).
- Via the myDataweb sever if the "Interval & Wakeup" connection type has been selected (see "Basic settings" auf Seite 68).



A speech bubble in the measurement device list (see "myDatanet Server Manual " 805002) with the title "Aloha" indicates that a device is in ALOHA transmission mode.



Clicking on the speech bubble with the "Aloha" title opens the ALOHA data window (see "myDatanet Server Manual " 805002). It includes the internal "voltage", "GSM level" and "battery" measurement values, as well as the measurement values of the 4 universal inputs. The measurement values for the last thirty minutes are always shown in the ALOHA data window, this can mean that data from a previous ALOHA transmission is included. The ALOHA data is generated every three seconds independently of the normal measurement values that are generated and is thus not saved with the standard measurement data.

If a measurement dataset is recorded during ALOHA transmission mode, it is immediately transmitted to the myDataweb server and saved in the standard measurement data.

Chapter 6 Storage, delivery and transport

6.1 Inspection of incoming deliveries

Please check the shipment immediately after receiving for completeness and intactness. Immediately report any discovered transport damages to the delivering carrier. Also notify the manufacturer in writing about this without delay. Report any incompleteness in the delivery to the responsible representative or directly to the company headquarters of the manufacturer within 2 weeks (see "Contact information" auf Seite 85).

> ***Note:*** *Any claims received thereafter will not be acknowledged!*

6.2 Scope of delivery

> ***Note:*** *The accu or battery pack required for operation, (see "Accu and battery packs" auf Seite 84) is not part of the standard scope of delivery and must be ordered separately.*

The standard scope of delivery of the myDatalogEASY (206.210) includes:

- myDatalogEASY
- myDatanet Tool Pen (206.646)
- 10-pole connector plug
- MDN Magnet (206.803)
- Quick guide

Additional equipment such as internal extensions, assembly sets, antennas, accu or battery pack, sensors, power supply, charger, etc., depending on the order. Please check this against the delivery slip.

6.3 Storage

The following storage conditions must be observed:

myDatalogEASY	Storage temperature	-30...+85°C
	Humidity	15...90%rH
BP434R	Operating temperature	-20...+50°C
	Storage temperature	0...+35°C
AP413D+	Operating temperature	-50...+60°C
	Charging temperature	-20...+60°C
	Storage temperature	0... +30°C
	Humidity	15-50%

Note: *The table above only includes the storage conditions for the two energy sources used most frequently for the myDatalogEASY . Please consult the appropriate factsheet for information about the storage conditions of other accu or battery packs.*

Important note: *Remove the accu or battery pack from the myDatalogEASY prior to storage.*

Store the measurement technology so that it is protected against corrosive or organic solvent vapours, radioactive emissions and strong electromagnetic radiation.

6.4 Transportation

The myDatalogEASY is designed for rough industrial applications. Nevertheless, it should not be subjected to heavy shocks, bumps, impacts or vibrations. The original packaging must always be used for transport.

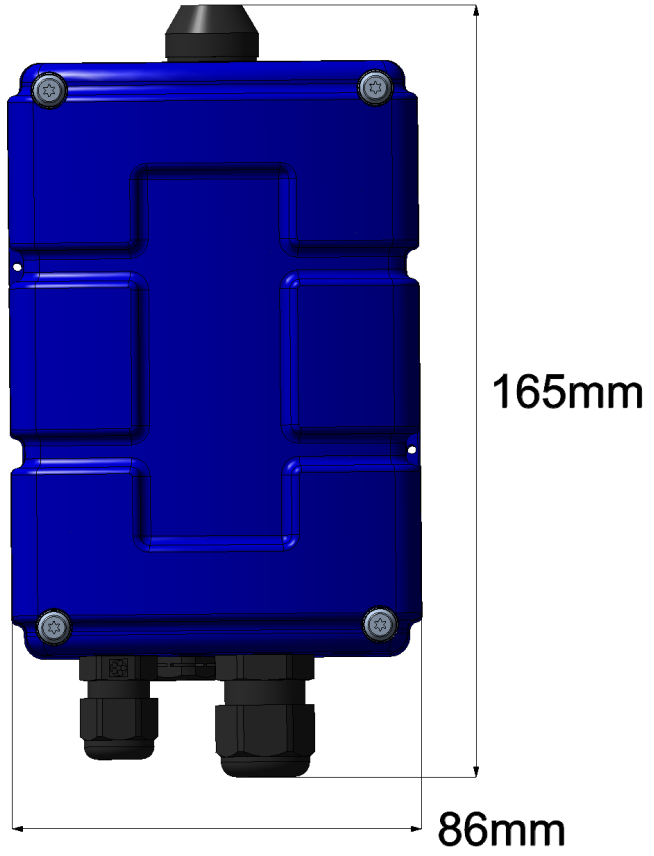
6.5 Return

Every return must be accompanied by a fully field-out return form. This return form is available in the service area of the myDataweb-Server. An RMA number is mandatory for any returns and can be obtained from the Support & Service Centre (see "Contact information" auf Seite 85). The return shipment of the myDatalogEASY must occur in the original packaging and with freight and insurance paid to Microtronics Engineering GmbH (see "Contact information" auf Seite 85). Insufficiently cleared return shipments will otherwise not be accepted!

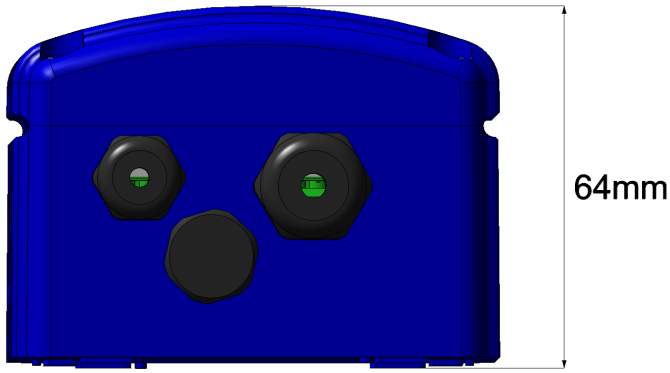
Chapter 7 Installation

Important note: *The work described in this section of these instructions must only be performed by qualified personnel to prevent any damage to the device.*

7.1 Dimensions



Dimensions: Width and height



Dimensions: Depth

7.2 Installing the myDatalogEASY

Important note:

- *Ensure the installation is completed properly.*
- *Comply with the existing legal and/or operational directives.*
- *Improper handling can cause injuries and/or damage to the devices.*

The installation site must be selected according to specific criteria. The following conditions must be avoided in any case:

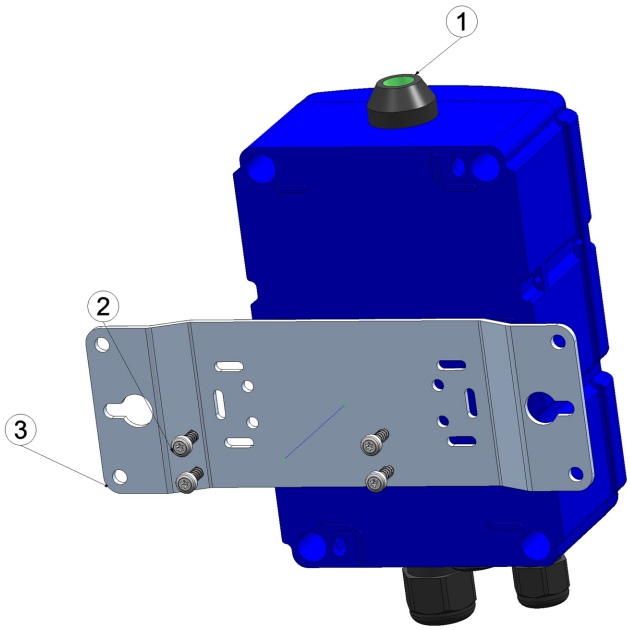
- Direct sunlight
- Objects that radiate intense heat (maximum ambient temperature: -20...+60°C)

- Objects with a strong electromagnetic field (frequency converter or similar)
- Corrosive chemicals or gases
- Mechanical impacts
- Direct installation on foot or road ways
- Vibrations
- Radioactive emissions

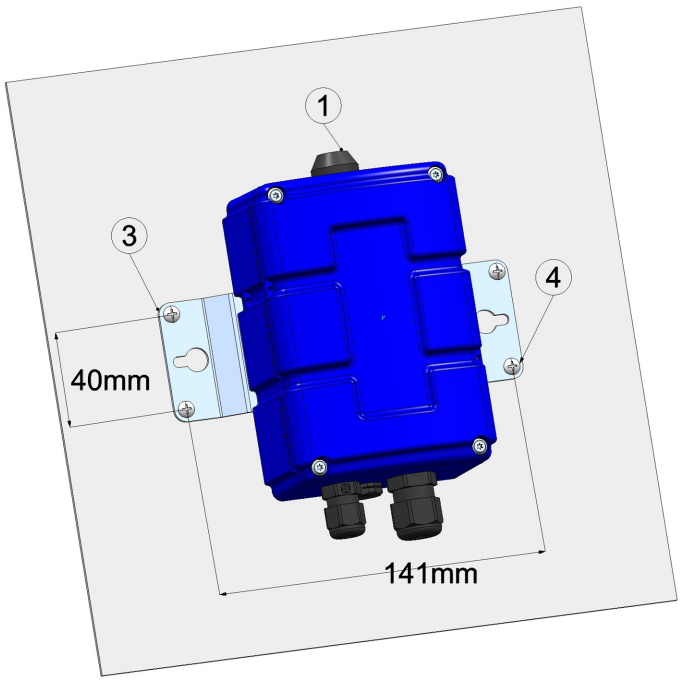
Note: *Leave sufficient space at the upper end to mount the antenna. The space required depends on the antenna used. Approx. 15 cm of space must be left beneath the device for the cable connections. Further information about the installation dimensions can be found in the relevant sub-chapter.*

7.2.1 Wall mounting

For wall mounting the optional "Universal bracket for housing myDatanet 86x126 (206.640)" equipment is required.



Step 1 of the wall mounting



Step 2 of the wall mounting

1	myDatalogEASY	3	Assembly loop (included in the delivery scope of 206.640)
2	Delta PT M3.5x8 Torx 15 (included in the delivery scope of 206.640)	4	Raised head tapping screw 3.5x32 (included in the delivery scope of 206.640)

1. First attach the assembly loop (3) using the screws (2) included in the "Universal bracket for housing myDatanet 86x126 (206.640)" equipment set to the myDatalogEASY (see "Step 1 of the wall mounting" auf Seite 24).
2. Drilling the holes for mounting:

   If you want to use the tapping screws (4) included in the equipment set to secure the

assembly loop (3) to the wall, drill four 6-mm holes in the wall using the drill template as a guide in accordance with the dimensions in the diagram "Step 2 of the wall mounting" auf Seite 24.

If you want to use your own fastening screws you can use the drill guide provided in the equipment set to determine the position of the holes. The diameters are then determined by the screws that are being used and any wall plugs that may be required.

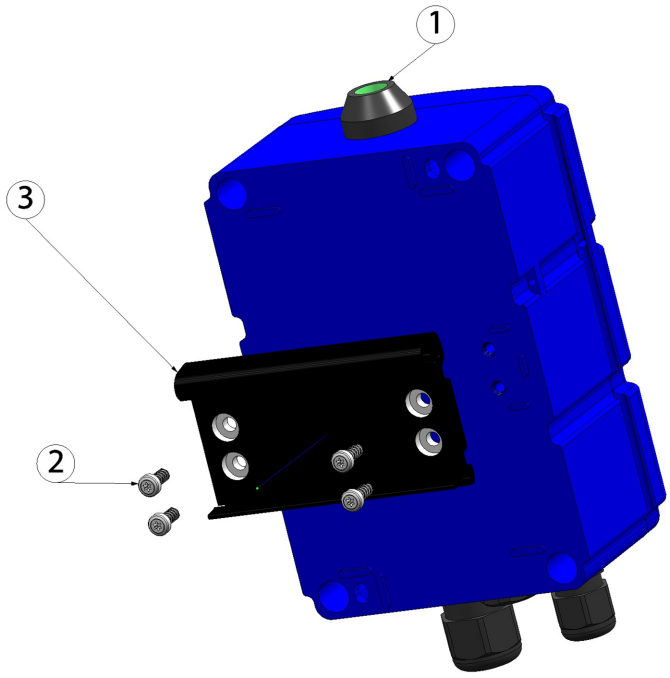
3. Securing the myDatalogEASY to the wall:

   If you want to use the tapping screws (4) included in the equipment set, first of all insert the supplied wall plugs into each of the four drill holes before screwing the myDatalogEASY with the attached assembly loop (3) to the wall (see "Step 2 of the wall mounting" auf Seite 24).

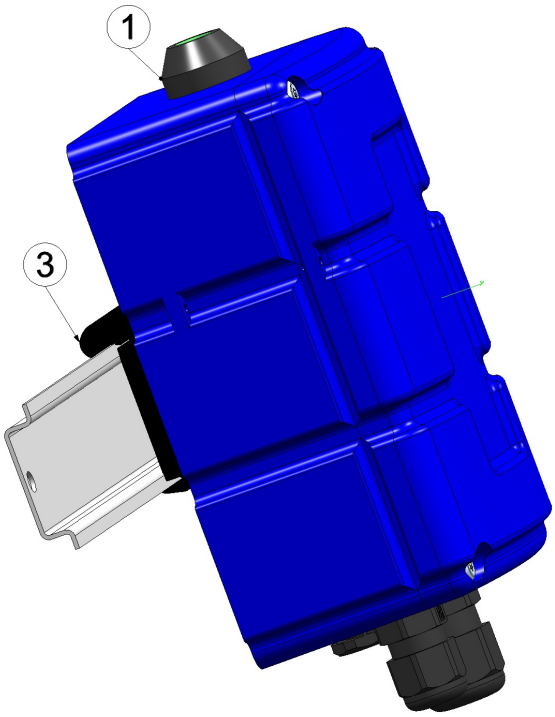
   If you are using your own screws, you must also insert the wall plugs into the holes before mounting the myDatalogEASY with the attached assembly loop (3) to the wall (see "Step 2 of the wall mounting" auf Seite 24).

7.2.2 Top-hat rail assembly

The optional "DIN rail mounting set for myDatanet housing 86x126 (206.634)" equipment is required for the top-hat rail assembly.



Step 1 of the top-hat rail assembly



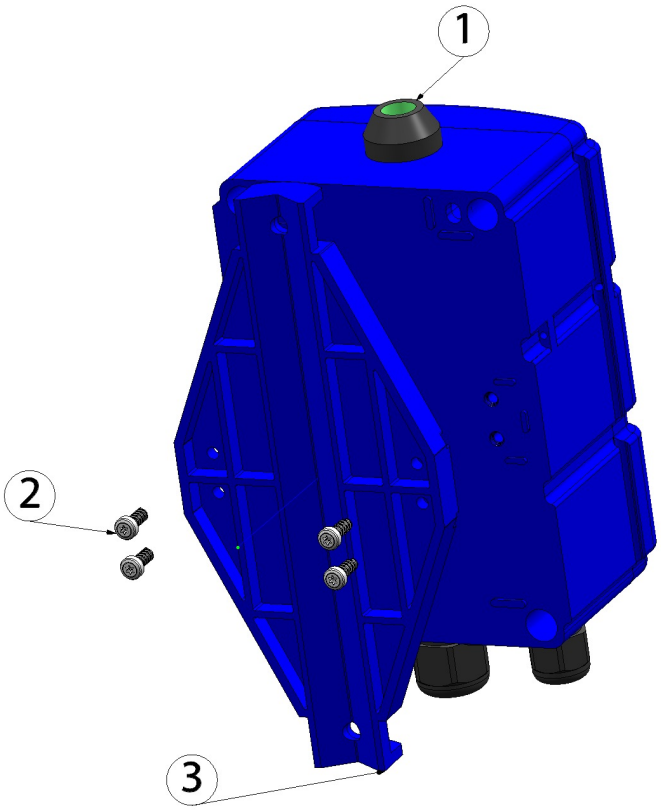
Step 2 of the top-hat rail assembly

1 myDatalogEASY	3 Assembly loop (included in the scope of delivery of 206.634)
2 Delta PT M3.5x8 Torx 15 (included in the scope of delivery of 206.634)	

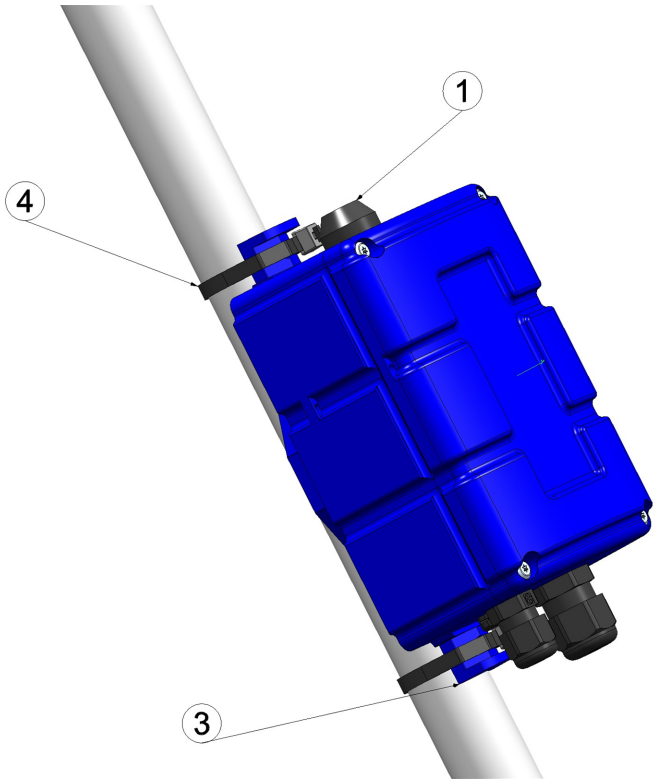
1. First attach the assembly loop (3) using the screws (2) included in the "DIN rail mounting set for myDatanet housing 86x126 (206.634)" equipment set to the myDatalogEASY (see "Step 1 of the top-hat rail assembly " auf Seite 25).
2. Place the assembly loop (3) onto the top edge of the top-hat rail. When turned slightly around the horizontal axis of the myDatalogEASY with the assembly loop (3) attached, the assembly loop (3) engages on the top-hat rail (see "Step 2 of the top-hat rail assembly" auf Seite 25).

7.2.3 Pipe assembly

The optional "Pipe mounting kit for myDatanet housing 86x126 (206.660)" equipment is required for the pipe assembly.



Step 1 of the pipe assembly



Step 2 of the pipe assembly

1	myDatalogEASY	3	Assembly loop (included in the scope of delivery of 206.660)
2	Delta PT M3.5x8 Torx 15 (included in the scope of delivery of 206.660)	4	Cable binder (included in the scope of delivery of 206.660)

1. First attach the assembly loop (3) using the screws (2) included in the "Pipe mounting kit for myDatanet housing 86x126 (206.660)" equipment set to the myDatalogEASY (see "Step 1 of the pipe assembly " auf Seite 26).

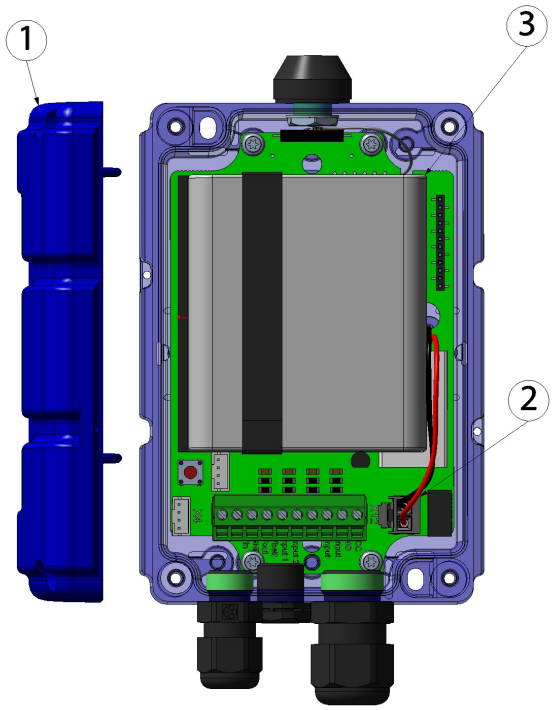
2. Position the myDatalogEASY with the attached assembly loop (3) on the pipe and use the supplied cable binders (4) to secure the myDatalogEASY (see "Step 2 of the pipe assembly" auf Seite 26).

7.3 Safety instructions for the cabling

Important note: *To avoid any damage, always switch off the voltage supply to the device when performing electrical connections.*

When connections are made to the myDatalogEASY , the following warnings and information must be observed, in addition to the warnings and information found in the individual chapters on the installation. Further safety information is included in "Safety instructions" auf Seite 11.

If present, disconnect the external charging voltage from the device and remove the accu or battery pack before completing any wiring work.



Removing the accu or battery pack

1 Housing cover	3 Accu or battery pack
2 Supply connector	

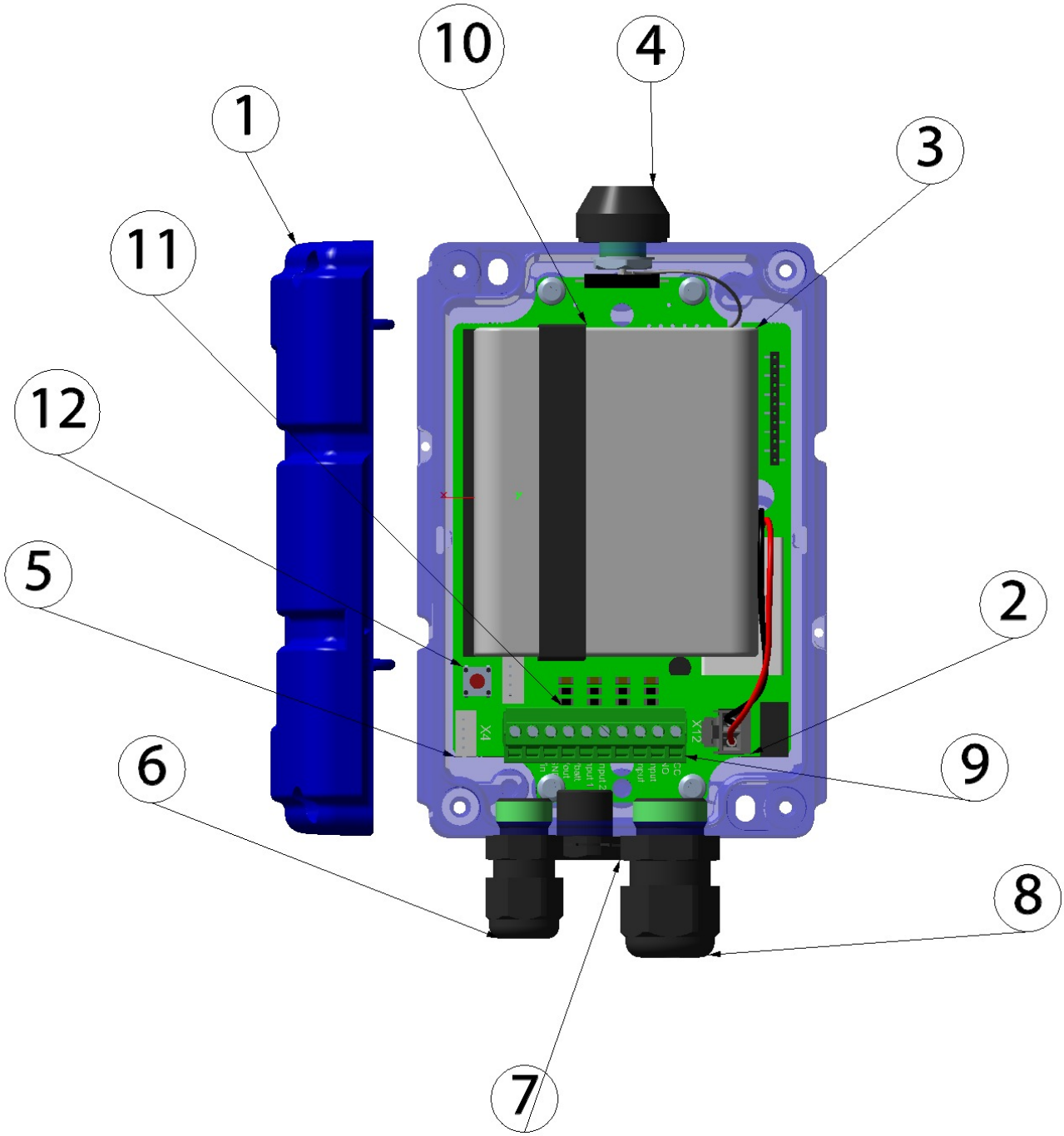
7.4 Electrical installation

Important note: *Only qualified personnel should undertake the installation described in this chapter of the operating instructions to avoid any damage to the device.*

7.4.1 Connecting the sensors, actuators and supply

Important note:

- *All cabling work must be performed in the de-energised state.*
- *Ensure a proper installation.*
- *Comply with the existing legal and/or operational directives.*
- *Improper handling can cause injuries and/or damage to the devices.*
- *Run all data and power cables so that they do not pose a stumbling risk and ensure that the cables do not have any sharp bends.*
- *The myDatalogEASY must not be operated in the field with the lid open.*
- *The myDatalogEASY cannot be operated without an internal power supply (accu or battery pack).*
- *Ensure the polarity of the connector is correct when replacing the accu or battery pack.*
- *An external charging (V_{in}) voltage must not be connected to the myDatalogEASY if a battery pack is used.*
- *To ensure the housing is properly sealed, each of the two cable screw connections must only hold a single cable.*



Connection of the sensors and supply

1	Housing cover	7	Pressure compensation
2	Supply connector	8	M16x1.5 cable screw connection (cable diameter of 4.5 to 10 mm)
3	Accu or battery pack	9	Main terminal block X12
4	Antenna connection	10	Mounting for the accu or battery pack

5 connector X4 for the external temperature sensor	**11** Status LED
6 M12x1.5 cable screw connection (cable diameter of 3.5 to 7 mm)	**12** Button

Allocation of the main terminal block X12

1	V_{in}	External charging voltage
2	GND	Earthing
3	V_{out}	Output 1: Switchable sensor supply
4	V_{batt}	Direct accu or battery voltage output
5	Input 1	Universal input 1
6	Input 2	Universal input 2
7	Input 3	Universal input 3
8	Input 4	Universal input 4
9	NO	Output 2: Isolated switch contact
10	CC	

1. Remove the four screws that secure the housing cover. Then open the myDatalogEASY .

   Important note: *In the event of adverse weather conditions including rain or in a location where water can penetrate from above, suitable measures must be implemented to protect the device from penetrating moisture when the housing cover is open.*

2. Connection of the external temperature sensor:

   If the external temperature sensor was ordered at the same time as the myDatalogEASY , it should already be connected correctly.

   If you ordered an external temperature sensor at a later date as an accessory, the following steps must be completed:

   Important note: *Please note that not every type of external temperature sensor can be installed by the customer (see "Sensors" auf Seite 84).*

   1. Remove the main terminal block. Ensure that the external charging voltage is switched off if it is already connected to the main terminal block.
   2. Remove the accu or battery pack.
   3. Thread the sensor and its cable internally through the M12 cable screw connection.
   4. Connect the connector of the external temperature sensor to the connector X4 for the external temperature sensor .

5. Tighten the M12 cable screw connection to secure the sensor cable.
6. Install the accu or battery pack before fitting the main terminal block.

3. Then connect your sensors and actuators with the universal inputs and outputs. If you are using an accu pack to supply the myDatalogEASY , connect the external charging voltage to V_{in} and the GND. Ensure that no current is present!

   Important note: *Only a single cable must be threaded through the cable screw connections to ensure the seal of the housing is not damaged.*

4. Tighten the cable screw connections to secure the cables.
5. Affix blind plugs to all of the cable screw connections that are not required.

   Important note: *All unused cable screw connections on the myDatalogEASY must be sealed watertightly using the blind plugs supplied. Otherwise the degree of protection for the entire device is not guaranteed and the manufacturer's warranty is void.*

6. Insert the accu or battery pack into the myDatalogEASY and secure it with the appropriate mounting.
7. Connect the antenna (see "Connecting the GSM antenna" auf Seite 31). The antenna is not included in the scope of delivery and must be ordered separately.
8. Connect the accu or battery pack to the supply connector. The status LED should then start to flicker (see "Status LED" auf Seite 41), indicating that a connection is being established.

The following step is not mandatory.

9. Check whether the connection to the myDataweb has functioned correctly (see "Testing the communication with the device" auf Seite 38).
10. Close the housing cover. The best option is to tighten all four of the screws crosswise so that the housing cover is positioned evenly.

    Important note: *Ensure that the seals are clean and intact before closing the housing cover. Remove any foreign bodies and/or dirt. The manufacturer will not be liable for any damage to the device caused by leaky or faulty seals.*

The following step is only necessary if you are using an external charging voltage for the accu pack:

11. Now switch on the external charging voltage.

7.4.2 Connecting the GSM antenna

Important note: *To ensure the correct functionality, only use antennas that are supplied by the manufacturer.*

The standard antenna is directly attached to the antenna connector (see "Overview" auf Seite 14) of the myDatalogEASY . In the event of a low radio signal strength, you can use the Flat antenna Smart Disc FME-F (206.814).

If the distance between the antenna position and the myDatalogEASY is too great, you can use a 5 m Extension for ANT900 FME (206.805).

1. Ensure that the myDatalogEASY is de-energised.
2. If you need an antenna extension, connect this to the antenna first.
3. Connect the antenna extension or antenna directly to the antenna connection of the myDatalogEASY (see "Overview" auf Seite 14)

   Important note: *Do not apply too much force when tightening the antenna. Do not use any tools to tighten the antenna or antenna extension; only tighten it manually.*

4. Switch the power supply of the myDatalogEASY back on.

The following step is not mandatory.

5. Check whether the connection to the myDataweb has functioned correctly (see "Testing the communication with the device" auf Seite 38).

7.4.3 Technical details regarding the universal inputs

7.4.3.1 0/4 to 20mA mode

Note: *Above 22,5mA, the affected input becomes highly resistive (safety shutdown to prevent damage to the universal input).*

Resolution	6µA
I_{max}	22,5mA
Load	100Ω

7.4.3.2 0 to 2V mode

Resolution	610µV
U_{max}	2,5V
Load	220k1

7.4.3.3 0 to 10V mode

Resolution	8,3mV
U_{max}	32V
Load	8k9

7.4.3.4 Standard digital modes (PWM, frequency, digital, day counter, impulse counter)

General	U_{max}	32V
	Low	‹1,36V
	High	›2,73V
	Load	8k9
PWM	Measurement range	1...99%
	f_{max}	100Hz
	Minimum pulse length	1ms
Frequency	Measurement range	1...1000Hz
Day and pulse counter	Minimum pulse length	20ms

7.4.3.5 Low power digital mode (LP digital)

Important note: *If a universal input is in "LP digital", a switch contact must only be supplied by V_{batt}. Attaching an external voltage will cause damage to the universal input. In comparison to "digital" mode, the energy consumption during "LP digital" mode with a closed switch contact is thus reduced by a factor of 13.*

U_{max}	V_{batt}
Low	‹100mV
High	›200mV
Load	220k1

7.4.4 Technical details regarding the outputs

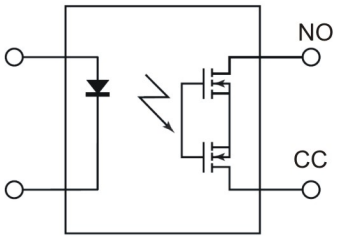
7.4.4.1 Output 1: Switchable sensor supply (V_{out})

Note: *The switchable sensor supply output is short-circuit-proof.*

P_{max}	1W
I_{max}	66mA@15V 41mA@24V

7.4.4.2 Output 2: Isolated switch contract (NO, CC)

> *Important note: The user must ensure that the current does not exceed 130mA via the isolated switch contact.*



Replacement circuit diagram for the isolated switch contact

I_{max}	130mA
U_{max}	32V
R_{on}	35Ω
f_{max}	500Hz

7.4.4.3 Direct accu or battery voltage output (V_{batt})

The accu or battery voltage is supplied directly to the voltage output V_{batt} protected by a PTC (I_{max} 200mA). The voltage available at this output is therefore directly dependent on the charging condition of the accu or battery pack.

7.4.5 Technical details regarding energy management

The device will work until 3,1V, if the myDatalogEASY is operated without an external charging voltage (V_{in}). It then switches to energy-saving mode in which only the charge controller is active. If an external charging voltage (V_{in}) is supplied in this mode, the accu pack can be charged up again. Otherwise the myDatalogEASY remains in energy-saving mode until the accu pack is completely discharged.

When an external charging voltage (V_{in}) is used, the charge controller ensures that the accu pack is charged. It is therefore necessary to select the type of accu used in the input screen of the device configuration (see "Device-specific settings" auf Seite 71). If a type of accu pack is selected that is also assigned the title "solar", the accu pack is constantly charged (recommended if a solar field is used to charge the accu pack). For all of the other accu pack type settings, the accu pack is always charged to the maximum voltage, after which charging is switched off and only reactivated when V_{low} (see "Device-specific settings" auf Seite 71) is reached (used to optimise the service life of the accu pack).

All types of accu packs are only recharged if the ambient temperature does not have an impact on the permissible range of the charging temperature. The permissible charging temperature is specified in the factsheet for the relevant accu pack. Chapter "Accu and battery packs" auf Seite 84 contains an overview of the temperature ranges for several accu packs.

Note: *Please be aware that some of the compatible accu packs cannot be charged at sub-zero temperatures. Select an appropriate accu pack if you are expecting low temperatures during operation.*

Chapter 8 Placing into operation

8.1 User information

Before you connect the myDatalogEASY and place it into operation, you must observe and comply with the following user information!

This manual contains all information that is required for using the device.

Is intended for technically qualified personnel who have the relevant knowledge and experience in the area of measurement technology.

Read this manual carefully and completely in order to ensure the proper functioning of the myDatalogEASY .

Please contact our technical department if anything is unclear or if you encounter difficulties with regard to installation, connection or configuration (see "Contact information" auf Seite 85).

If necessary, please also refer to the manuals of the accessory parts when commissioning the complete system. These manuals are included in the scope of delivery of the accessory parts.

8.2 General principles

The entire measurement system may only be placed into operation after completion and inspection of the installation. Study the manual thoroughly before placing into operation to prevent faulty or incorrect configuration.

Utilise the manual to familiarise yourself with the operation of the myDatalogEASY and the input screens of the myDataweb-Server before you begin with the configuration.

8.3 Placing the system into operation

> ***Note:*** *It is recommended that the myDatalogEASY is first placed into operation in the office before permanently mounting the device at the place of use. In doing so you should set a site for the later operation on the myDataweb server (see "myDatanet Server Manual " 805002) and determine a site configuration (see "Site configuration" auf Seite 43). Take the opportunity to get to know the functions of the device in a stable environment. You can also use suitable test signals to simulate the sensors to establish the optimum configuration of the myDatalogEASY prior to its actual first use. This will reduce the time needed for on-site installation to a minimum.*

1. Once you have completed all of the steps described in the section "Connecting the sensors, actuators and supply" auf Seite 28, the myDatalogEASY is ready for operation and should have already made its first connection to the myDataweb server.
2. Create a site for the operation on the myDataweb server (see "myDatanet Server Manual " 805002).

3. Configure the created site according to your requirements (see "Site configuration" auf Seite 43).
4. Link the myDatalogEASY with the created site (see "Site" auf Seite 43).
5. Check whether the type of accu pack set in the device configuration (see "Device-specific settings" auf Seite 71) matches the accu or battery pack that is being used.

   Important note: *The accu pack type must be configured correctly, otherwise the charging curve will not be correct.*

6. Activate the ALOHA transmission mode (see "ALOHA transmission mode" auf Seite 19) so that the site configuration is transmitted to the myDatalogEASY .

8.4 Testing the communication with the device

1. Create a site for the operation on the myDataweb server (see "myDatanet Server Manual " 805002).
2. Configure the created site according to your requirements (see "Site configuration" auf Seite 43).
3. Link the myDatalogEASY with the created site (see "Site" auf Seite 43).
4. Initiate the ALOHA transmission mode (see "ALOHA transmission mode" auf Seite 19) so that the configuration of the site is transmitted to the myDatalogEASY .
5. Wait until the list of measurement instruments indicates that the unit is in ALOHA transmission mode. This is indicated by a speech bubble with the "Aloha" inscription.



The following steps are only required if you also want to test the measurement value acquisition and data transmission.

6. Terminate the ALOHA transmission mode by clicking the cross in the speech bubble with the "Aloha" inscription or wait for the duration of the ALOHA transmission mode. This period can be determined in the basic settings (see "Basic settings" auf Seite 68) of the site configuration. The default setting is ten minutes.
7. Then wire up the sensors (see "Connecting the sensors, actuators and supply" auf Seite 28) and restart the ALOHA transmission mode

   Important note: *All wiring work must be performed in the de-energised state.*

8. Check the incoming data in ALOHA data window of the myDataweb server, which can be accessed by clicking on the speech bubble with the "Aloha" inscription (see "myDatanet

Server Manual " 805002). Particular attention must be paid to the internal "GSM level" and "battery" measurement values.



Note: *Additional explanation about evaluating the "GSM level":*

"GSM level"	
›-64dBm	
-64 to -73dBm	
-74 to -83dBm	
-84 to -93dBm	
-94 to -107dBm	
‹= -108dBm	

Note: *Additional explanation about evaluating the "battery":*

"Battery"	
› 3.81V	
› 3.71V	
› 3.64V	
› 3.6V	
› 3.2V	
‹= 3.2 V or invalid value	

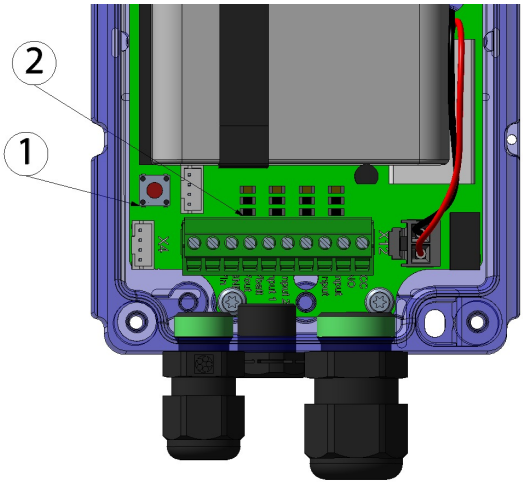
Chapter 9 User interfaces

The configuration of the myDatalogEASY is carried out via the web interface on the myDataweb server (see "User interface on the myDataweb-Server" auf Seite 43), which your responsible sales partner will provide to you.

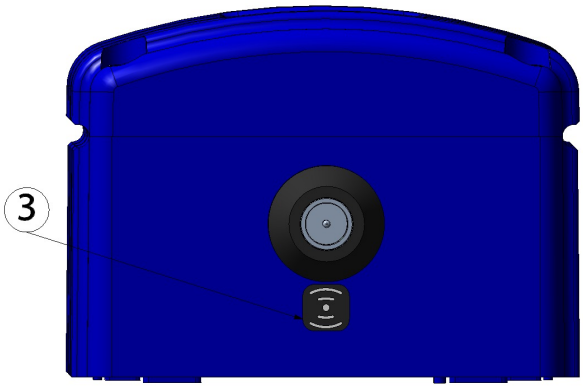
9.1 User interface on the myDatalogEASY

9.1.1 Operating elements

A differentiation must be made between the operating elements of the myDatalogEASY that are only accessible when the housing cover is open, and those that are also accessible when the housing is closed.



Operating elements that are accessible when the housing cover is open



Operating elements that are accessible when the housing is closed

1 Status LED	3 Solenoid switch
2 Buttons	

9.1.1.1 Status LED

The status LED is used both to display the error/status codes and to indicate the current operating status. If the ALOHA transmission mode was activated or the accu or battery pack was connected (PowerOn), the status LED shows the current operating status for 10 minutes. During these ten minutes, the error/status codes are transmitted every three seconds.

Error/status codes

Blink code	Description	Solution/cause
0x	Transport lock (GPRS OFF, measurement OFF)	If the ALOHA transmission mode is initiated by the button or solenoid switch, the myDatalogEASY switches back into "RUN" mode (GPRS ON, measurement ON).
1x	Last connection OK	
2x	Last transmission faulty	Try again later
4x	Standby (GPRS ON, measurement OFF)	See "transport lock"
6x	Offline (GPRS OFF, measurement ON)	See "transport lock"
7x	Network block/no matching provider	• Improve position of the antenna • Check whether the device is located in the coverage area of a service provider that is supported by the integrated SIM chip (www.microtronics.at/footprint) • Lift the network block (see "myDatanetDeviceConfig Manual" 805004)
8x	No GSM network	• Try again later • Improve position of the antenna
10x	No GPRS connection	Improve position of the antenna
11x	No myDatanet server accessible	• Check whether port 51241 is enabled on the myDataweb server • Try again later
12x	Faulty SIM chip	Contact support

Operating statuses

Status LED	Description
Flickering	Establishing connection
Lights up	GPRS connection established or button/solenoid switch actuates
Off	Normal measuring operation according to configuration until the next transmission

9.1.1.2 Buttons

The button can also be used to initiate the ALOHA transmission mode or to instruct the myDatalogEASY to immediately give out the error/status code.

User action	Device response	Operation after releasing the button
Press briefly for approx. one second	Status LED illuminates	Error/status code is displayed (see "Status LED" auf Seite 41)
Press and hold for five seconds	Status LED flashes three times and then remains on	ALOHA transmission mode

9.1.1.3 Solenoid switch

The solenoid switch initiates the same actions as the button. However, it can also be used with the housing closed thanks to the MDN Magnet (206.803) included in the scope of delivery.

9.2 User interface on the myDataweb-Server

9.2.1 Site configuration

> ***Note:*** *Several of the configuration fields in the following sub chapters may possibly be hidden depending on the respective user level. In this case, please contact the myDataweb-Server administrator.*

Click on the name of the site in the list of sites to get to the input screen for configuring the site (see "myDatanet Server Manual " 805002).

9.2.1.1 Site

Customer
Specifies to which customer the site is assigned.

 **icon**
Assign site to another customer

Name
Site designation (not relevant for the device or data assignment)

Instrument S/N
Serial number of the device that is linked to the site (device assignment!)

9.2.1.2 Comments

Comments
Empty comment field (is also displayed below the device type in the site list)

9.2.1.3 Measurement channels

9.2.1.3.1 Basis

Title 1-4
Freely selectable channel title for the universal inputs

Title 1Wire

Freely selectable channel title for the external temperature sensor

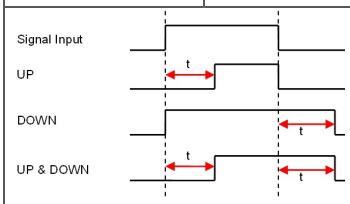
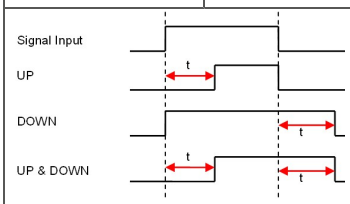
Mode

Basic settings for the measurement channel

Universal inputs *(digital modes)*	*Off*	*---*	*Measurement channel deactivated*
	Digital	*Invert*	*Inverts the input signal*
	Digital LP	*Invert*	*Inverts the input signal*
	Cnt.Day	*Impulse*	*Count value of an impulse in the measuring unit*
		Max	*Defines the upper scale end of the pointer instruments*
		Unit	*String, which is used as the measurement unit by all of the server display elements*
		Decimal places	*Number of decimal places that are used by all of the server display elements*
	Cnt.Intervl.	*Impulse*	*Count value of an impulse in the measuring unit*
		Max	*Defines the upper scale end of the pointer instruments*
		Unit	*String, which is used as the measurement unit by all of the server display elements*
		Decimal places	*Number of decimal places that are used by all of the server display elements*
	Freq	*Factor*	*Factor by which the input signal is multiplied*
		Min	*Defines the lower scale end of the pointer instruments*
		Max	*Defines the upper scale end of the pointer instruments*
		Unit	*String, which is used as the measurement unit by all of the server display elements*
		Decimal places	*Number of decimal places that are used by all of the server display elements*
	PWM	*0%*	*Start of measurement range in the measurement unit*
		100%	*End of measurement range in the measurement unit*
		Unit	*String, which is used as the measurement unit by all of the server display elements*
		Decimal places	*Number of decimal places that are used by all of the server display elements*

Universal inputs *(analogue modes)*	*0-20 mA*	*0%*	*Start of measurement range in the measurement unit*
		100%	*End of measurement range in the measurement unit*
		Unit	*String, which is used as the measurement unit by all of the server display elements*
		Decimal places	*Number of decimal places that are used by all of the server display elements*
	4-20 mA	*0%*	*Start of measurement range in the measurement unit*
		100%	*End of measurement range in the measurement unit*
		Unit	*String, which is used as the measurement unit by all of the server display elements*
		Decimal places	*Number of decimal places that are used by all of the server display elements*
	0-2V	*0%*	*Start of measurement range in the measurement unit*
		100%	*End of measurement range in the measurement unit*
		Unit	*String, which is used as the measurement unit by all of the server display elements*
		Decimal places	*Number of decimal places that are used by all of the server display elements*
	0-10V	*0%*	*Start of measurement range in the measurement unit*
		100%	*End of measurement range in the measurement unit*
		Unit	*String, which is used as the measurement unit by all of the server display elements*
		Decimal places	*Number of decimal places that are used by all of the server display elements*
Ext. temperature sensor	*Off*	*---*	*Measurement channel deactivated*
	On	*Min*	*Defines the lower scale end of the pointer instruments*
		Max	*Defines the upper scale end of the pointer instruments*
		Unit	*Selection of the temperature unit that is used by all of the server display elements*
		Decimal places	*Number of decimal places that are used by all of the server display elements*

9.2.1.3.2 Config

<table>
<tr><td rowspan="11">Universal inputs
(digital modes)</td><td>Off</td><td>---</td><td colspan="2">---</td></tr>
<tr><td rowspan="5">Digital</td><td>Filter time</td><td colspan="2">Minimum signal length for signal detection</td></tr>
<tr><td rowspan="4">Decay</td><td colspan="2">Temporal function in the measurement cycle</td></tr>
<tr><td>Up</td><td>Minimum signal length for x seconds on rising edge</td></tr>
<tr><td>Down</td><td>Minimum signal length for x seconds on falling edge</td></tr>
<tr><td>Up & down</td><td>Minimum signal length for x seconds on both edges</td></tr>
<tr><td colspan="3">
</td></tr>
<tr><td>Time</td><td colspan="2">Time x, for which the decay modes "up" "down", and "up & down" are used</td></tr>
<tr><td rowspan="5">Digital LP</td><td>Filter time</td><td colspan="2">Minimum signal length for signal detection</td></tr>
<tr><td rowspan="4">Decay</td><td colspan="2">Temporal function in the measurement cycle</td></tr>
<tr><td>Up</td><td>Minimum signal length for x seconds on rising edge</td></tr>
<tr><td>Down</td><td>Minimum signal length for x seconds on falling edge</td></tr>
<tr><td>Up & down</td><td>Minimum signal length for x seconds on both edges</td></tr>
<tr><td colspan="3">
</td></tr>
<tr><td>Time</td><td colspan="2">Time x, for which the decay modes "up" "down", and "up & down" are used</td></tr>
</table>

Universal inputs (Counter modes)	Cnt.Day	Filter time	Minimum signal length for signal detection	
		Reset at	Reset time of the day counter	
	Cnt.Intervl.	Filter time	Minimum signal length for signal detection	
		Decay	Temporal function in the measurement cycle	
			Off	Decay deactivated
			Min	The minimum of the last x measurement values is recorded.
			Max	The maximum of the last x measurement values is recorded.
			Avg	The arithmetic mean of the last x measurement values is recorded.
			Med	The median of the last x measurement values is recorded.
			Rms	The root mean square of the last x measurement values is recorded.
		Time	Time window for the decay. Up to max. 60 measurement values can be used for the calculation (e.g. 1 channel: 60 measurement values; 4 channels: per 15 measurement values). To calculate the number of considered measurement values see "Example for explaining the recording, measuring and burst cycles (in conjunction with the decay)" auf Seite 69.	

Universal inputs (Frequency mode 1/2)	Freq (1/2)	Filter time	Minimum signal length for signal detection	
		Decay	Temporal function in the measurement cycle	
			Off	Decay deactivated
			Min	The minimum of the last x measurement values is recorded.
			Max	The maximum of the last x measurement values is recorded.
			Avg	The arithmetic mean of the last x measurement values is recorded.
			Med	The median of the last x measurement values is recorded.
			Rms	The root mean square of the last x measurement values is recorded.
		Time	Time window for the decay. Up to max. 60 measurement values can be used for the calculation (e.g. 1 channel: 60 measurement values; 4 channels: per 15 measurement values). To calculate the number of considered measurement values see "Example for explaining the recording, measuring and burst cycles (in conjunction with the decay)" auf Seite 69.	
		Hold	Maintain the last valid measurement value for x measurement cycles	
			Off	Function deactivated
			1-5	Number of measurement cycles for which the measured value is maintained until the error value is issued
			On	In the event of an error, the last valid measurement value is maintained until a new valid measurement value is present.

Universal inputs (Frequency mode 2/2)	Freq (2/2)	Overflow	Handling measurement range violations	
			Ignore	The measured value is calculated beyond the range limits.
			Silent cutoff	The measured value is cutoff at the range limits.
			Overflow	• If the measurement value is below the lower limit, the error value "UF" (underflow) is issued. • If the measurement value is above the upper limit, the error value "OF" (overflow) is issued.
			NAMUR borders	• If the measurement value is below the lower limit, the error value "UF" (underflow) is issued. • If the measurement value is above the upper limit, the error value "OF" (overflow) is issued.

Universal inputs (PWM mode 1/2)	PWM (1/2)	Filter time	Minimum signal length for signal detection	
		Decay	Temporal function in the measurement cycle	
			Off	Decay deactivated
			Min	The minimum of the last x measurement values is recorded.
			Max	The maximum of the last x measurement values is recorded.
			Avg	The arithmetic mean of the last x measurement values is recorded.
			Med	The median of the last x measurement values is recorded.
			Rms	The root mean square of the last x measurement values is recorded.
		Time	Time window for the decay. Up to max. 60 measurement values can be used for the calculation (e.g. 1 channel: 60 measurement values; 4 channels: per 15 measurement values). To calculate the number of considered measurement values see "Example for explaining the recording, measuring and burst cycles (in conjunction with the decay)" auf Seite 69.	
		Hold	Maintain the last valid measurement value for x measurement cycles	
			Off	Function deactivated
			1-5	Number of measurement cycles for which the measured value is maintained until the error value is issued
			On	In the event of an error, the last valid measurement value is maintained until a new valid measurement value is present.

Universal inputs (PWM mode 2/2)	PWM (2/2)	Overflow	Handling measurement range violations	
			Ignore	The measured value is calculated beyond the range limits.
			Silent cutoff	The measured value is cutoff at the range limits.
			Overflow	• If the measurement value is below the lower limit, the error value "UF" (underflow) is issued. • If the measurement value is above the upper limit, the error value "OF" (overflow) is issued.
			NAMUR borders	• If the measurement value is below the lower limit, the error value "UF" (underflow) is issued. • If the measurement value is above the upper limit, the error value "OF" (overflow) is issued.

Universal inputs (0-20 mA mode 1/2)	0-20 mA (1/2)	Filter time	Temporal averaging for signal smoothing	
		Decay	Temporal function in the measurement cycle	
			Off	Decay deactivated
			Min	The minimum of the last x measurement values is recorded.
			Max	The maximum of the last x measurement values is recorded.
			Avg	The arithmetic mean of the last x measurement values is recorded.
			Med	The median of the last x measurement values is recorded.
			Rms	The root mean square of the last x measurement values is recorded.
		Time	Time window for the decay. Up to max. 60 measurement values can be used for the calculation (e.g. 1 channel: 60 measurement values; 4 channels: per 15 measurement values). To calculate the number of considered measurement values see "Example for explaining the recording, measuring and burst cycles (in conjunction with the decay)" auf Seite 69.	
		Hold	Maintain the last valid measurement value for x measurement cycles	
			Off	Function deactivated
			1-5	Number of measurement cycles for which the measured value is maintained until the error value is issued
			On	In the event of an error, the last valid measurement value is maintained until a new valid measurement value is present.

Universal inputs (0-20 mA mode 2/2)	0-20 mA (2/2)	Overflow	Handling measurement range violations	
			Ignore	The measured value is calculated beyond the range limits.
			Silent cutoff	The measured value is cutoff at the range limits.
			Overflow	• If the measured value is above 20.1 mA, the error value "SC" (short cut) is issued.
			NAMUR borders	• If the measured value is above 20.1 mA, the error value "OF" (overflow) is issued. • If the measured value is above 21 mA, the error value "SC" (short cut) is issued.

Universal inputs (4-20 mA mode 1/2)	4-20 mA (1/2)	Filter time	Temporal averaging for signal smoothing	
		Decay	Temporal function in the measurement cycle	
			Off	Decay deactivated
			Min	The minimum of the last x measurement values is recorded.
			Max	The maximum of the last x measurement values is recorded.
			Avg	The arithmetic mean of the last x measurement values is recorded.
			Med	The median of the last x measurement values is recorded.
			Rms	The root mean square of the last x measurement values is recorded.
		Time	Time window for the decay. Up to max. 60 measurement values can be used for the calculation (e.g. 1 channel: 60 measurement values; 4 channels: per 15 measurement values). To calculate the number of considered measurement values see "Example for explaining the recording, measuring and burst cycles (in conjunction with the decay)" auf Seite 69.	
		Hold	Maintain the last valid measurement value for x measurement cycles	
			Off	Function deactivated
			1-5	Number of measurement cycles for which the measured value is maintained until the error value is issued
			On	In the event of an error, the last valid measurement value is maintained until a new valid measurement value is present.

Universal inputs (4-20 mA mode 2/2)	4-20 mA (2/2)	Overflow	Handling measurement range violations	
			Ignore	The measured value is calculated beyond the range limits.
			Silent cutoff	The measured value is cutoff at the range limits.
			Overflow	• If the measured value is below 3.9 mA, the error value "OL" (open loop) is issued. • If the measured value is above 20.1 mA, the error value "SC" (short cut) is issued.
			NAMUR borders	• If the measured value is below 3.6 mA, the error value "OL" (open loop) is issued. • If the measured value is below 3.9 mA, the error value "UF" (under flow) is issued. • If the measured value is above 20.1 mA, the error value "OF" (overflow) is issued. • If the measured value is above 21 mA, the error value "SC" (short cut) is issued.

Universal inputs (0-2V mode 1/2)	0-2V (1/2)	Filter time	Temporal averaging for signal smoothing	
		Decay	Temporal function in the measurement cycle	
			Off	Decay deactivated
			Min	The minimum of the last x measurement values is recorded.
			Max	The maximum of the last x measurement values is recorded.
			Avg	The arithmetic mean of the last x measurement values is recorded.
			Med	The median of the last x measurement values is recorded.
			Rms	The root mean square of the last x measurement values is recorded.
		Time	Time window for the decay. Up to max. 60 measurement values can be used for the calculation (e.g. 1 channel: 60 measurement values; 4 channels: per 15 measurement values). To calculate the number of considered measurement values see "Example for explaining the recording, measuring and burst cycles (in conjunction with the decay)" auf Seite 69.	
		Hold	Maintain the last valid measurement value for x measurement cycles	
			Off	Function deactivated
			1-5	Number of measurement cycles for which the measured value is maintained until the error value is issued
			On	In the event of an error, the last valid measurement value is maintained until a new valid measurement value is present.

Universal inputs (0-2V mode 2/2)	0-2V (2/2)	Overflow	Handling measurement range violations	
			Ignore	The measured value is calculated beyond the range limits.
			Silent cutoff	The measured value is cutoff at the range limits.
			Overflow	If the measured value is above 2.01V, the error value "OF" (overflow) is issued.
			NAMUR borders	If the measured value is above 2.01V, the error value "OF" (overflow) is issued.

Universal inputs (0-10V mode 1/2)	0-10V (1/2)	Filter time	Temporal averaging for signal smoothing	
		Decay	Temporal function in the measurement cycle	
			Off	Decay deactivated
			Min	The minimum of the last x measurement values is recorded.
			Max	The maximum of the last x measurement values is recorded.
			Avg	The arithmetic mean of the last x measurement values is recorded.
			Med	The median of the last x measurement values is recorded.
			Rms	The root mean square of the last x measurement values is recorded.
		Time	Time window for the decay. Up to max. 60 measurement values can be used for the calculation (e.g. 1 channel: 60 measurement values; 4 channels: per 15 measurement values). To calculate the number of considered measurement values see "Example for explaining the recording, measuring and burst cycles (in conjunction with the decay)" auf Seite 69.	
		Hold	Maintain the last valid measurement value for x measurement cycles	
			Off	Function deactivated
			1-5	Number of measurement cycles for which the measured value is maintained until the error value is issued
			On	In the event of an error, the last valid measurement value is maintained until a new valid measurement value is present.

Universal inputs (0-10V mode 2/2)	0-10V (2/2)	Overflow	Handling measurement range violations	
			Ignore	The measured value is calculated beyond the range limits.
			Silent cutoff	The measured value is cutoff at the range limits.
			Overflow	If the measured value is above 10.05V, the error value "OF" (overflow) is issued.
			NAMUR borders	If the measured value is above 10.05V, the error value "OF" (overflow) is issued.
Ext. temperature sensor	Off	---	Measurement channel deactivated	
	On	Hold	Maintain the last valid measurement value for x measurement cycles	
			Off	Function deactivated
			1-5	Number of measurement cycles for which the measured value is maintained until the error value is issued
			On	In the event of an error, the last valid measurement value is maintained until a new valid measurement value is present.

9.2.1.3.3 Alarms

"Digital" or "Digital LP" mode	WA	A "high" at the universal input initiates a "warning"	
	AL	A "high" at the universal input initiates an "alarm"	
	SW	A "high" at the universal input initiates a "fault warning"	
	SA	A "high" at the universal input initiates a "fault alarm"	
All other modes	Warning	Value low	A warning is initiated if the measurement value drops to or below this value.
		Value high	A warning is initiated if the measurement value meets or exceeds this value.
	Alarm	Value low	An alarm is initiated if the measurement value drops to or below this value.
		Value high	An alarm is initiated if the measurement value meets or exceeds this value.
	Hyst %	Hysteresis for all-clear (e.g. hyst = 5%, alarm or warning at 100 -> all-clear at 95)	

9.2.1.3.4 Trigger

"Digital" or "Digital LP" mode	QU	Fastrecording (recording cycle = recording cycle / factor)	
	SL	Slow recording (recording cycle = recording cycle * factor)	
	MS	Start measuring cycle immediately	
	XM	Initiate transmission	
	ON	Activate online mode	
	Edge	Selection of the edge at which the trigger should be initiated	
		Rising	Rising edge initiates trigger.
		Falling	Falling edge initiates trigger.
		Both	Both edges initiate trigger.
All other modes	QU	Fastrecording (recording cycle = recording cycle / factor)	
	SL	Slow recording (recording cycle = recording cycle * factor)	
	RO	Switch on recording	
	RF	Switch off recording	
	XM	Initiate transmission	
	ON	Activate online mode	
	Level	Levels for initiating the trigger	
		Greater or equal	The measurement value must be greater than or equal to the level to initiate the trigger.
		Less or equal	The measurement value must be less than or equal to the level to initiate the trigger.

9.2.1.4 Calculated channels

Note: *The values of the calculated channels are calculated directly for the data output (display on myDataweb server or download from myDataweb server). They are not saved in the server database.*

9.2.1.4.1 Basis

Title 1-5

Freely selectable channel title for the calculated channels

Mode

Possible calculation modes for the calculated channels

Off	---	*Calculated channel deactivated*
Table	*Min*	*Defines the lower scale end of the pointer instruments*
	Max	*Defines the upper scale end of the pointer instruments*
	Unit	*String, which is used as the measurement unit by all of the server display elements*
	Decimal places	*Number of decimal places which are used by all of the server display elements*
Digital	*Invert*	*Inverts the input signal*
+, -, x, /	*Min*	*Defines the lower scale end of the pointer instruments*
	Max	*Defines the upper scale end of the pointer instruments*
	Unit	*String, which is used as the measurement unit by all of the server display elements*
	Decimal places	*Number of decimal places which are used by all of the server display elements*



Shifts element down



Shifts element up

9.2.1.4.2 Calculation

Off	---	Calculated channel deactivated
Table	Source	Selection of the channel from which the input data is used
		Opens the screen for entering the values table (between the table rows is interpolated linearly, values outside of the defined table are extrapolated linearly.)
Digital	Source	Selection of the channel from which the input data is used
	High level	Signal recognition level
+, -, x, /	Source	Selection of the channel from which the input data is used
	+, -, x, /	
	Source	Selection of the channel from which the input data is used

9.2.1.4.3 Alarm

Note: The alarm levels for calculated channels can only be evaluated once the device has transmitted the measurement data to the myDataweb server.

Alarm low	An alarm is initiated if the measurement value drops to or below this value.
Alarm high	An alarm is initiated if the measurement value meets or exceeds this value.
Hyst %	Hysteresis for all-clear (e.g. hyst = 5%, alarm or warning at 100 -› all-clear at 95)

9.2.1.5 Output channels

9.2.1.5.1 Basis

Ext warmup time

Indicates the amount of time that an output channel is switched on in "Ext warmup time" mode before the measurement.

Title 1

Freely selectable channel title for the switchable sensor supply

Title 2

Freely selectable channel title for the isolated switch contact

Mode

Basic setting for the output channel

Off	*---*	*Output channel deactivated*
Ext warmup time	*The output channel is switched on "ext warmup time" seconds prior the to measurement. If the value is "0", the output channel is not switched on at all.*	
Digital	*Invert*	*Inverts the level issued by the device (see "Additional explanation of "Digital" mode" auf Seite 65).*
	Setpoint	*Setpoint (on/off) that should be issued*
Frequency	*Factor*	*The frequency in Hertz is determined by multiplying the setpoint by the factor.*
	Min	*Defines the lower scale end of the pointer instruments*
	Max	*Defines the upper scale end of the pointer instruments*
	Setpoint	*The frequency in Hertz is determined by multiplying the setpoint by the factor.*
	Unit	*String, which is used as the measurement unit by all of the server display elements*
	Decimal places	*Number of decimal places that are used by all of the server display elements*
PWM	*0%*	*Start of measurement range in the measurement unit*
	100%	*End of measurement range in the measurement unit*
	Setpoint	*Output value in the measured unit*
	Unit	*String, which is used as the measurement unit by all of the server display elements*
	Decimal places	*Number of decimal places that are used by all of the server display elements*
Impulse	*Factor*	*The impulse/min is determined by multiplying the setpoint by the factor.*
	Min	*Defines the lower scale end of the pointer instruments*
	Max	*Defines the upper scale end of the pointer instruments*
	Setpoint	*The impulse/min is determined by multiplying the setpoint by the factor.*
	Unit	*String, which is used as the measurement unit by all of the server display elements*
	Decimal places	*Number of decimal places that are used by all of the server display elements*

Note:

Additional explanation of "Digital" mode

Invert	*Setpoint*		*Output on device*
Off	*Off*	=	*Off (low)*
Off	*On*	=	*On (high)*
On	*Off*	=	*On (high)*
On	*On*	=	*Off (low)*

9.2.1.5.2 Config

Off	---	
Ext warmup time	---	
Frequency	---	
PWM	---	
Impulse	Duration	Duration of an output impulse

9.2.1.6 Internal channels

9.2.1.6.1 Basis

Voltage title	Freely selectable channel title for V_{in} (external charging voltage)	
	Unit	String, which is used as the measurement unit by all of the server display elements
Battery title	Freely selectable channel title for the internal battery or accu voltage	
	Unit	String, which is used as the measurement unit by all of the server display elements
GSM level title	Freely selectable channel title for the GSM level	
	Unit	String, which is used as the measurement unit by all of the server display elements
Int. temperature title	Freely selectable channel title for the internal device temperature	
	Unit	Selection of the temperature unit that is used by all of the server display elements

9.2.1.6.2 Alarms

Warning	Value low	A warning is initiated if the measurement value drops to or below this value.
	Value high	A warning is initiated if the measurement value meets or exceeds this value.
Alarm	Value low	An alarm is initiated if the measurement value drops to or below this value.
	Value high	An alarm is initiated if the measurement value meets or exceeds this value.
Hyst %	Hysteresis for all-clear (e.g. hyst = 5%, alarm or warning at 100 -› all-clear at 95)	

9.2.1.6.3 Trigger

QU	Fastrecording (recording cycle = recording cycle / factor)	
SL	Slow recording (recording cycle = recording cycle * factor)	
RO	Switch on recording	
RF	Switch off recording	
XM	Initiate transmission	
ON	Activate online mode	
Level	Levels for initiating the trigger	
	Greater or equal	The measurement value must be greater than or equal to the level to initiate the trigger.
	Less or equal	The measurement value must be less than or equal to the level to initiate the trigger.

9.2.1.7 Alarm settings

Acknowledgement	Standard	The global server setting is used (see "myDatanet Server Manual " 805002) to determine whether to acknowledge the alarms automatically or manually.
	Automatically	Alarms are acknowledged automatically as soon as all of the messages have been sent. If SMS that have a tariff with a delivery confirmation function are also sent, acknowledgement is provided after delivery confirmation.
	Manually	Alarms must be acknowledged manually
Offline alarm	Alarm in the event that the device does not respond for longer than the set transmission cycles	
Transfer volumes	Standard	The configuration for the transfer volume alarm is adopted from the global server setting (see "myDatanet Server Manual " 805002).
	Off	The transfer volume alarm is deactivated.
	Individual	The level at which the transfer volume alarm should be triggered can be entered in the adjacent field in KB.
On alarm	A	The alarm is recorded in the alarm list.
	Ü	An immediate transmission is initiated.
On warning	A	The alarm is recorded in the alarm list.
	Ü	An immediate transmission is initiated.
On fault alarm	A	The alarm is recorded in the alarm list.
	Ü	An immediate transmission is initiated.
On fault warning	A	The alarm is recorded in the alarm list.
	Ü	An immediate transmission is initiated.
Test alarm	A test message is sent to all recipients ("parallel" alarm call plan type) and/or the first recipient ("serial" alarm call plan type) as soon as this page is saved. The check box is subsequently reset automatically.	

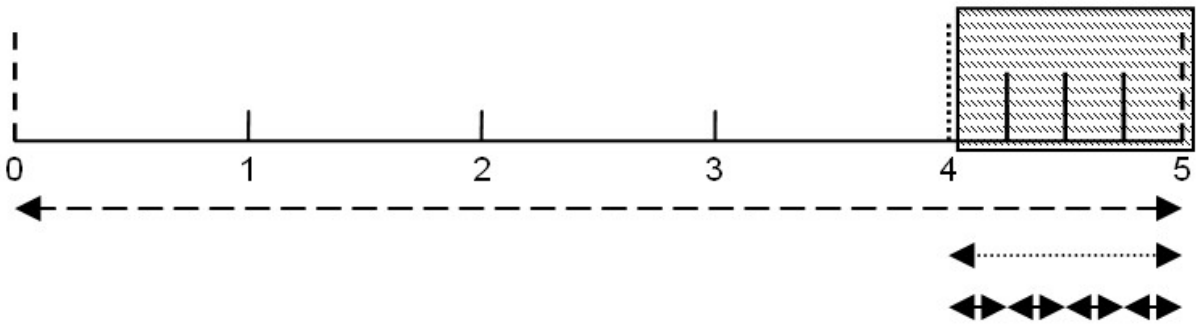
9.2.1.8 Basic settings

Connection type	Cycle	The device registers in the transmission cycle
	Cycle & wakeup	The device registers in the transmission cycle and can be placed into the ALOHA transmission mode via the server. 
	Online	The device does not disconnect the connection and continuously transmits the measurement data.
Aloha/wakeup duration	Aloha/wakeup duration connection	
Transmission cycle	Time between transmissions	
Recoding cycle	Time between measurement data recordings	
Measure quick divisor	Recoding cycle = recording cycle / factor (from triggering)	
Measure slow factor	Recoding cycle = recording cycle * factor (from triggering)	
Measurement cycle	Time between measurements (00:00 same as recoding cycle)	
Burst cycle	Period of time, during which measurement intervals are used for measuring, before recording begins. (00:00 measurement cycle is permanently activated)	
Time zone	Regional setting (not relevant for raw measurement data as this is stored in the UTC)	
Daylight saving time	Configuration for automatic time adjustment	
	Standard	The configuration for the time adjustment is adopted by the global server setting (see "myDatanet Server Manual " 805002).
	Off	Automatic time adjustment deactivated
	USA	Predefined setting for the American area
	EU	Predefined setting for the European area
Position cycle	Time between position update	
Default view	Report, which is loaded into the map by clicking on the device link	

Note:

Example for explaining the recording, measuring and burst cycles (in conjunction with the decay)

Basic setting		*Recoding cycle*	*5 min.*
		Burst cycle	*1 min.*
		Measurement cycle	*15 sec.*
Measurement channels -> Config.		*Decay*	*Med*
		Time	*60 sec.*



Measured value formation: The last four measurement values are used to determine the median and recorded as the measurement value.

Note: *Additional explanation of the connection types*

Connection type	*Energy consumption*	*Data volumes*	*Response time*
Online			
Cycle & wakeup			
Cycle			

9.2.1.9 FTP export settings

Note: *This configuration section is only visible if the "FTP Agent Extended" licence for the myDataweb-Server has been enabled.*

FTP export profile	off	FTP export deactivated
	"Name of an FTP export profile"	List with the FTP export profiles that were created on the myDataweb-Server (for creating an FTP export profile, see "myDatanet Server Manual " 805002).
Settings of the selected profile	shows an overview of the most important parameters of the selected FTP export profile	
FTP directory	makes overwriting the standard directory of the selected FTP export profile possible	

9.2.2 Device configuration

> ***Note:*** *Several of the configuration fields in the following sub chapters may possibly be hidden depending on the respective user level. In this case, please contact the myDataweb-Server administrator.*

You can reach the input screen for configuring the device by clicking on the serial number in the site list (see "myDatanet Server Manual " 805002) or by clicking on the device name in the device name list (see "myDatanet Server Manual " 805002).

9.2.2.1 Comments

Comments

Empty comment field (is also displayed below the site name in the measurement instrument list)

9.2.2.2 Measurement instrument

Customer	Name of the customer to whom the measurement instrument is assigned
IMSI	IMSI of the used SIM chip or SIM card
Serial number	Serial number of the instrument
Instrument class	The instrument class of the site and instrument must match for an instrument to be able to be connected to a site.
Telephone number	Telephone number of the SIM card. The control SMS messages (e.g. wakeup) are sent to this number. Format: +43555837465
Instrument flags	Additional information on the instrument class (for internal use)
Firmware version	Current software version installed on the measurement controller
Modem version	Current software version installed on the modem controller
OS version	OS version of the modem

Last connection	In each case, the last time stamp of the affected operation	
Last wakeup		
Last disconnection		
Last transmission error		
Last Aloha connection		
Firmware update	Off	Firmware update is deactivated
	On	As soon as a new version of the selected firmware type is available, this is installed immediately.
	Even if tag is missing	Firmware is also transmitted to the device if the device has not transmitted the current firmware version to the server. (NOT RECOMMENDED!)
	Allow downgrade	Facilitates the installation of an older firmware version than the one on the device. (NOT RECOMMENDED!)
	Once	Performs a single firmware update. If no new firmware is available or the firmware was installed successfully, the firmware update is automatically switched to "OFF".
Firmware type	Released	Only firmware versions that have successfully undergone internal and field testing are installed (this practically eliminates malfunctions).
	Release candidate	Only firmware versions that have successfully undergone internal testing are installed (malfunctions cannot be excluded).
	Beta release	Even firmware versions that have not successfully undergone all of the internal tests are installed (malfunctions may occur).

9.2.2.3 Device-specific settings

Operating type	HOLD	Measurement: OFF, transmission: ON
	RUN	Measurement: ON, transmission: ON
	OFF	Measurement: OFF, transmission: OFF
	OFFLINE	Measurement: ON, transmission: OFF
	Aloha	Reserved for internal use

Accu type	Charging rule for the accu pack used (temp...charging conditions, V_{low}... charge level)	
	Battery	Charge regulator deactivated
	Li-ion	Temp.:0°C to +45°C, V_{low}:3,7V
	NiMH	Temp.:-10°C to +60°C, V_{low}:3,9V
	Solar	Temp.:0°C to +45°C, always charging
	AP404D	Temp.:0°C to +45°C, V_{low}:3,7V
	AP404D solar	Temp.:0°C to +45°C, always charging
	AP413D	Temp.:0°C to +45°C, V_{low}:3,7V
	AP413D solar	Temp.:0°C to +45°C, always charging
	AP406D+	Temp.:-30°C to +60°C, V_{low}:3,7V
	AP406D+ solar	Temp.:-30°C to +60°C, always charging
	AP413D+	Temp.:-30°C to +60°C, V_{low}:3,7V
	AP413D+ solar	Temp.:-30°C to +60°C, always charging
	AP403D	Temp.:-40°C to +80°C, V_{low}:3,7V
	AP403D solar	Temp.:-40°C to +80°C, always charging
	LiPo backup	Temp.:0°C to +45°C, V_{low}:3,7V
	BP434R	Charge regulator deactivated

9.2.2.4 GPRS

SIM tariff

Selected SIM tariff

Chapter 10 Maintenance

Important note: The work described in this section of these instructions may only be performed by qualified personnel to prevent damage to the instrument.

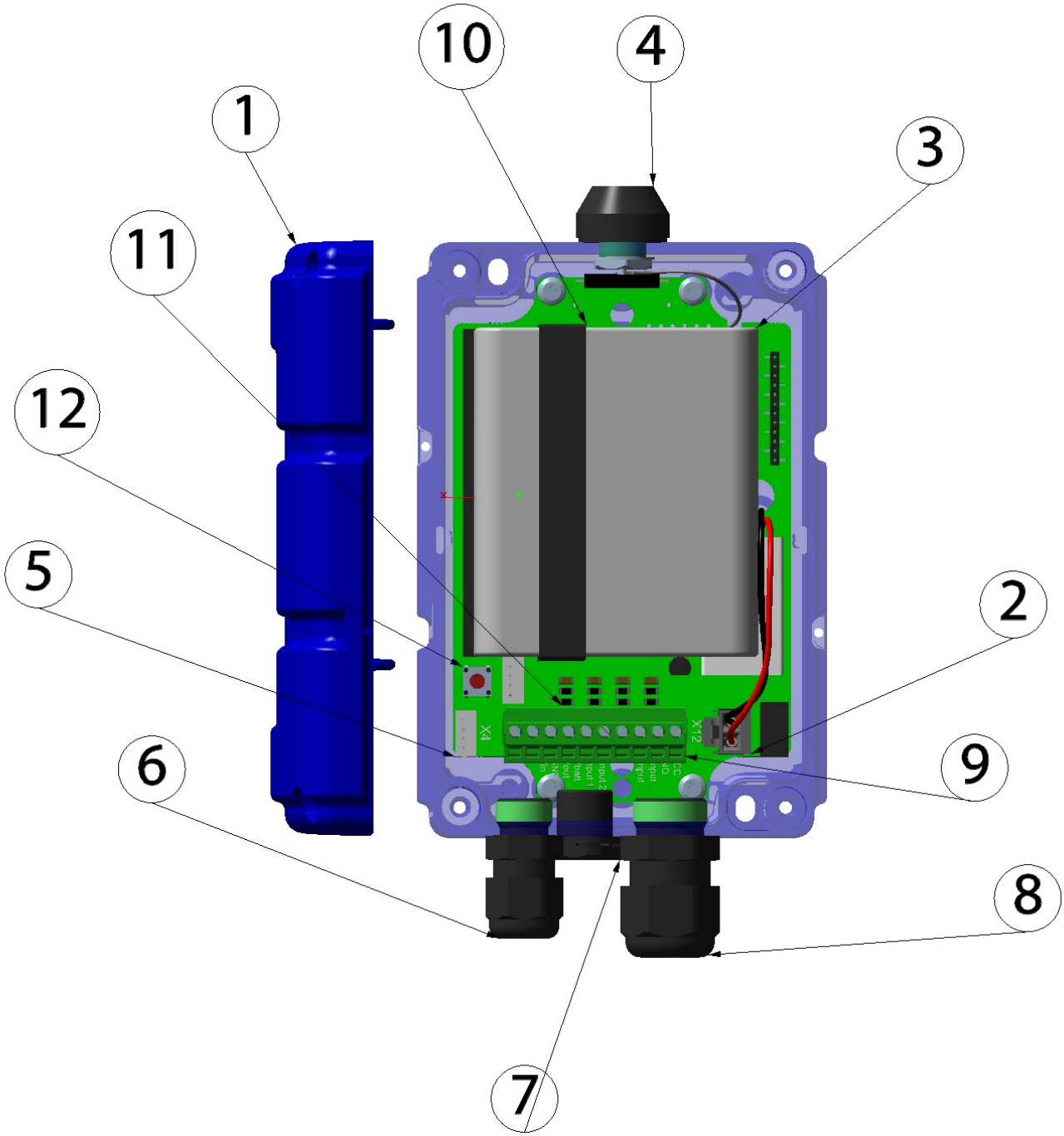
Before maintenance, cleaning and/or repair work, the device must absolutely be deenergised (zero potential).

10.1 General maintenance

- Regularly check the myDatalogEASY for mechanical damage.
- Check all of the connections for leaks or corrosion on a regular basis.
- Check all of the cables for mechanical damage at regular intervals.
- Clean the myDatalogEASY with a soft, moist cloth. Use a mild cleaning agent, if necessary.

10.2 Replacing the accu or battery pack

Important note: When replacing the accu or battery pack under adverse weather conditions or site locations where water can enter from above, find a suitable dry location for replacing the accu or battery pack. If this is not possible, protect the opened device against penetrating moisture using suitable means.



Replacing the accu or battery pack

1	Housing cover	7	Pressure compensation
2	Supply connector	8	M16x1.5 cable screw connection (cable diameter of 4.5 to 10 mm)
3	Accu or battery pack	9	Main terminal block X12
4	Antenna connection	10	Mounting for the accu or battery pack

5 connector X4 for the external temperature sensor	**11** Status LED
6 M12x1.5 cable screw connection (cable diameter of 3.5 to 7 mm)	**12** Buttons

1. Ensure that all of the relevant data was transmitted to the myDataweb server. If necessary initiate the ALOHA transmission mode using the solenoid contact (see "ALOHA transmission mode" auf Seite 19) and then check again that all of the relevant data has been transmitted.
2. If you are using an external charging voltage to charge the accu pack of the myDatalogEASY , disconnect this from the device before opening the housing cover.
3. Disconnect the connector of the accu or battery pack from the device's supply connector.
4. Remove the accu or battery pack mount and replace the existing accu or battery pack with a new one.

   Note: *Ensure that accu and battery packs are disposed of in line with environmental requirements. Used accu or battery packs can be returned to the manufacturer or handed in at suitable collection points.*

5. Install the new accu or battery pack and connect it to the supply connector of the myDatalogEASY .

The following step is not mandatory.

6. Check whether the connection to the myDataweb functions correctly (see "Testing the communication with the device" auf Seite 38).
7. Close the housing cover. The best option is to tighten all four of the screws crosswise so that the housing cover is positioned evenly.

   Important note: *Ensure that the seals are clean and intact before closing the housing cover. Remove any foreign bodies and/or dirt. The manufacturer will not be liable for any damage to the device caused by leaky or faulty seals.*

The following step is only necessary if you are using an external charging voltage for the accu pack:

8. Now switch on the external charging voltage.

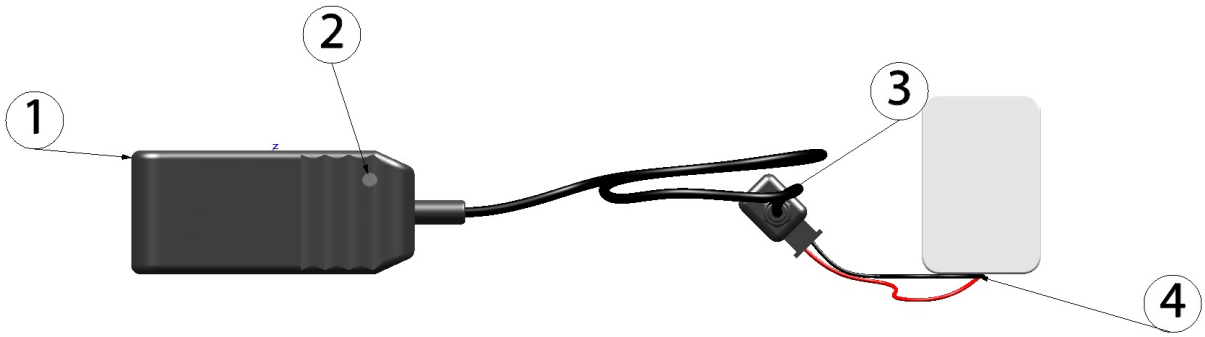
10.2.1 Charging the accu pack

The accu packs are delivered charged. If you use an external charging voltage (V_{in}) during operation, the accu pack is constantly charged by the charge controller integrated in the myDatalogEASY .

If no external charging voltage (V_{in}) is available during operation, it is recommended to recharge the accu pack prior to first use for reasons of operational safety.

Instructions on removing the accu pack are provided in "Replacing the accu or battery pack" auf Seite 73.

Important note: *The accu or battery pack must only be replaced and/or charged in non-hazardous areas and in dry conditions. Only use the Charger myDatalogEASY (206.710) to charge the lithium ion accu pack. The charger specifications must be observed. The use of atypical chargers can destroy the accu pack, for example, causing the cells to leak or an explosion, etc.*



Charger and accu pack

1	Charger myDatalogEASY (206.710)	3	Charging plug
2	Status LED of the Charger myDatalogEASY Flashing orange: Impulse charge (accu pack fully discharged) Orange: Accu pack is being charged Green: Charging completed Red: Accu pack damaged	4	Accu pack, for example, AP413D+(206.722)

The charging process starts as soon as the accu pack is connected to the charger. The accu pack is fully discharged if the status LED on the charger flashes orange. The charging process will take considerably longer in this case. If the status LED is orange, a normal charging process is started. The charging process is complete when the status LED turns green.

If the status LED turns red, the accu pack is faulty. Possible reasons for this include a broken cable, short circuit or defective cells. In this case, the used accu pack must be replaced by a new one.

Note: *Accu packs are wear parts that lose capacity over time. The capacity is also reduced at high or low ambient temperatures and under intensive use.*

Important note: *The use of spare and wear parts (e.g. accu or battery packs, etc.) which are not approved by the manufacturer shall void the warranty. The housing cover must always be closed tightly during operation.*

Note: *Ensure that accu and battery packs are disposed of in line with environmental requirements. Used accu or battery packs can be returned to the manufacturer or handed in at suitable collection points.*

10.3 Accu or battery pack

While battery packs are intended for single use and must be disposed of accordingly after depletion, accu packs can be recharged and used again and again. However, the service time of accu packs is not indefinite. In addition to regular servicing and maintenance, its service life is also dependent on the frequency of use and the operating and storage conditions.

Chapter 11 Removal/disposal

Dispose of the device in accordance with the locally valid environmental regulations for electronic products.

Rechargeable batteries and/or battery packs may not remain in the myDatalogEASY after discharging. Ensure that the used rechargeable batteries and/or battery packs are disposed of in an environmentally proper way.

Chapter 12 Troubleshooting and repair

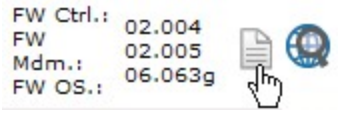
12.1 General problems

Problem	Cause/solution
Device does not respond (status LED always off)	Check the cable connections (see "Connecting the sensors, actuators and supply" auf Seite 28)
Communication problems	• Evaluate the status LED blink code (see "Status LED" auf Seite 41). • Load the device log from the myDatalogEASY or the myDataweb server and use myDatanetDeviceConfig for the evaluation (see "Evaluating the device log" auf Seite 82). • The accu or battery pack capacity is virtually depleted.
Not all or no data is available on the server	• The connection was interrupted during transmission, which is indicated by a time-out entry in the connection list (see "myDatanet Server Manual " 805002). Solution: Initiate a ALOHA transmission or wait for the next cyclical transmission. • The assignment of device and site is not correct (see "Site" auf Seite 43).
Data at universal input is not plausible	• Check whether the universal input configuration matches the sensor output signal (see "Measurement channels" auf Seite 43). • Check the filter settings of the universal input (see "Measurement channels" auf Seite 43).
An analogue channel alarm status was not identified	Increase the measurement cycle
Alarm status was not transmitted although the data is present	• Check the alarm settings of the measurement channel • The connection was interrupted during transmission, which is indicated by a time-out entry in the connection list (see "myDatanet Server Manual " 805002). Solution: Initiate a ALOHA transmission or wait for the next cyclical transmission.
Alarm message was not sent although the alarm was signalled	• Check the settings of the alarm call plan (see "myDatanet Server Manual " 805002). • Check the address data of the alarm call plan (see "myDatanet Server Manual " 805002).
Isolated switch contact is not working	• Disruption to the voltage that is conducted via the isolated switch contact • The site settings were overwritten by a server PLC.
The value set via the input screen on the myDataweb server is not issued at the output channel.	The site settings were overwritten by a PLC server.

12.2 Evaluating the device log

12.2.1 Evaluating the device log on the myDataweb server

The last 300 log entries on the myDataweb server can be called up via the button shown below that is located in the measurement device list. As the log entries are sent to the server in the transmission cycle in the same way as the measurement data, only the log entries up to the last server connection are available.



The manual for the server ("myDatanet Server Manual " 805002) includes a detailed description of the evaluation of the device log on the myDataweb server.

12.2.2 Evaluating the device log using myDatanetDeviceConfig

The optional equipment SIM/USB option (206.404) is required to read the log entries directly from the myDatalogEASY using the myDatanetDeviceConfig. With this equipment, all of the log entries stored in the device, including those that have not yet been transmitted to the myDataweb server can be read.

A more detailed description about the evaluation of the device log using myDatanetDeviceConfig is included in the manual for the myDatanetDeviceConfig ("myDatanetDeviceConfig Manual" 805004).

Chapter 13 Spare parts and accessories

13.1 Internal expansions

Note: *The following components are order options. Order options cannot be ordered separately or installed by the customer.*

Description	Quantity	Order number
SIM/USB option	1	206.404
12VDC sensor supply	1	206.750
24VDC sensor supply	1	206.751

13.2 Assembly sets

Description	Quantity	Order number
Universal bracket for housing myDatanet 86x126	1	206.640
DIN rail mounting set for myDatanet housing 86x126	1	206.634
Pipe mounting kit for myDatanet housing 86x126	1	206.660

13.3 Antennas

Description	Quantity	Order number
ANT900 FME	1	206.801
Flat antenna Smart Disc FME-F	1	206.814
Extension for ANT900 FME	1	206.805
ANT OutSide GP	1	206.607
Flat Antenna Smart Disc US FME-F	1	206.817
Antenna 1800 FME	1	206.809
Antenna adapter FME-F/SMA-F	1	206.822
Flat antenna Smart Disc Plus FME-F	1	206.824
Antenna extension SMA-F to FME-F	1	206.825
Flat whip antenna with adapter SMA-FME	1	206.830
Portable antenna multi band	1	206.826

13.4 Accu and battery packs

Description	Quantity	Order number
Battery packs		
BP434R (-20...+50°C operating temperature)	1	206.718
Accu packs		
AP403D (Pb; 2,5Ah; -40...+60°C operating temperature)	1	206.724
AP404D(LiIon; 4,5Ah; -20...+60°C operating, 0...+40°C charging temperature)	1	206.720
AP406D+(LiIon; 6,8Ah; -50...+60°C operating, -20...+60°C charging temperature)	1	206.723
AP413D(LiIon; 13,2Ah; -20...+60°C operating,0...+40°C charging temperature)	1	206.721
AP413D+ (LiIon; 13,6Ah; -50...+60°C operating, -20...+60°C charging temperature)	1	206.722

13.5 Sensors

Description	Quantity	Order number
Cable temperature sensor 3m	1	206.638
Cable temperature sensor 20m [1)]	1	206.635

[1)] Order options that cannot be ordered separately or installed by the customer.

13.6 Other accessories

Description	Quantity	Order number
myDatanet Tool Pen	1	206.646
MDN Magnet	1	206.803
Terminal box	1	206.622
Charger myDatalogEASY	1	206.710
MDN power device	1	206.623

Chapter 14 Contact information

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