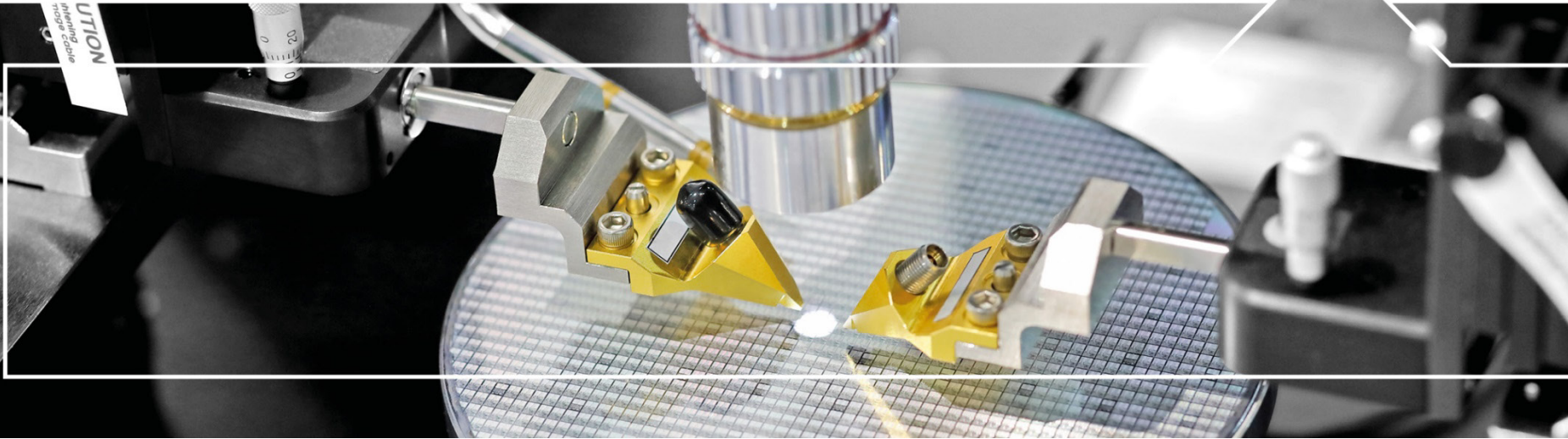


# D-ReX<sup>®</sup>



## **Agenda**

**D-ReX features overview**

**New releases (accessories, sensors, software)**

**Review of all documentation released to date**

**Software Training**

**Bluetooth App Training**

**Webportal Training**



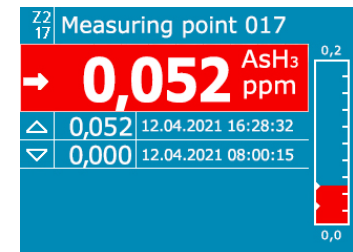
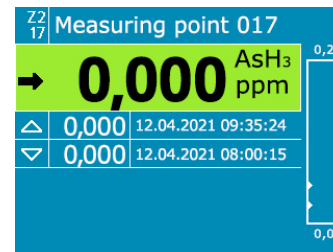
## Versatility was the goal

Depending on the requirements on site, you can choose the right D-ReX to suit your needs.

- **D**iffusion mode for ambient air monitoring with the D-ReX PoU (Point-of-Use)
- **R**emote detection up to 30 meters in diffusion mode utilizing the D-ReX PoI (Point-of-Installation)
- **eX**traction mode operation up to 30 meters using the D-ReX PoS (Point-of-Sampling)

# Features:

- Sensors for more than 50 gases
- High-resolution, full-color 2.4" TFT display
- Hot-swappable smart sensor cartridge
- Reusable sensor cartridge
- Power over Ethernet (PoE) or 24 V DC
- Addressable via a web portal- Datalogging
- Bluetooth App with service capabilities
- Software configuration tool
- Interface: **All Standard Now**
  - analog 4–20 mA output
  - RS-485 (Modbus/RTU)
  - 0/100 Mbit Ethernet (Modbus/TCP)
  - PoE Ethernet Communication
  - 5 Relays
- **LonWorks Option**
- **Pyrolyzer available now**
- **PID VOC sensor available**



## Designed for Versatility

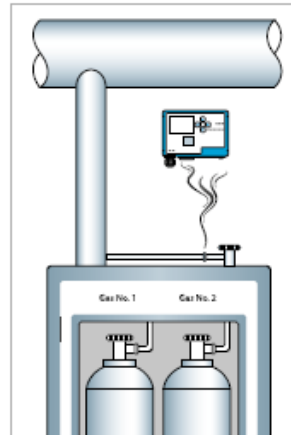
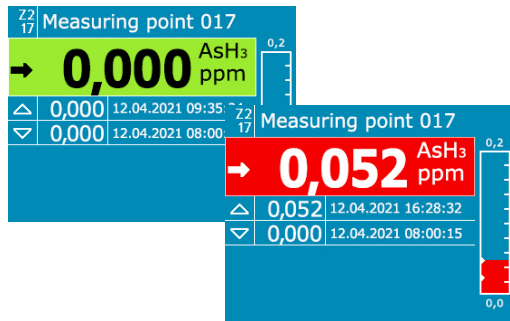
There is no one device for all requirements, but there is one device series to fit all the application needs and communication requirements you might have: the *D-ReX*.



## Diffusion Mode Gas Detection at the Point of Use (PoU)

### USPs:

- High-resolution full-color display
- Plain text information



- Power over Ethernet (PoE) communication
- Bluetooth®
- 5x internal relays

### Options:

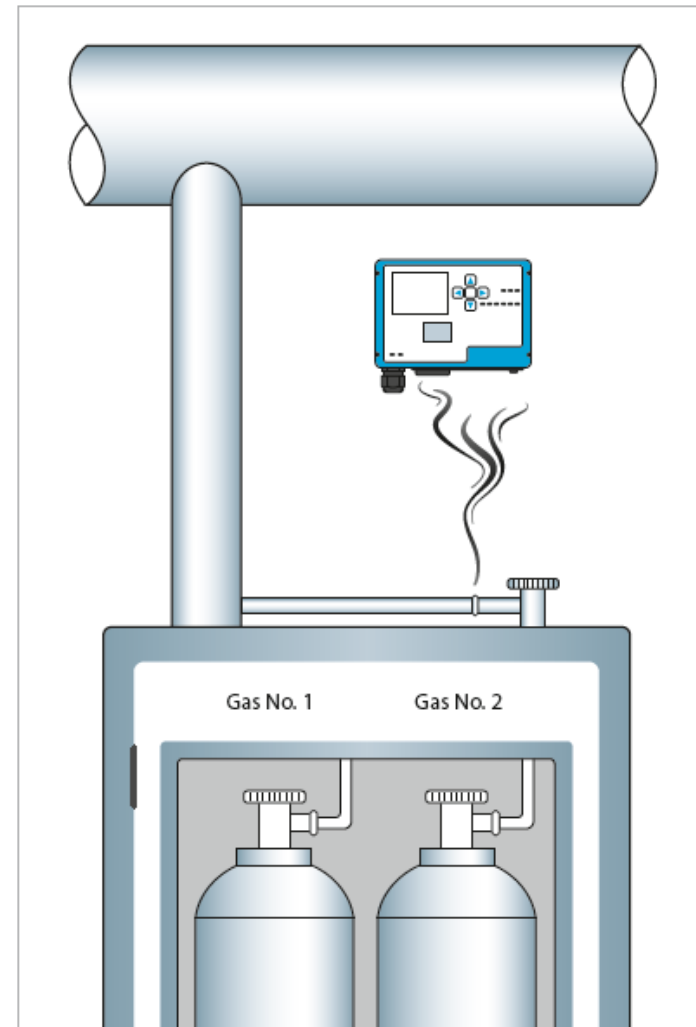
- LonWorks®



## Features:

- Sensors for more than 40 gases
- Hot-swappable smart sensor cartridge
- Sensor cartridges for EC, CC, IR and PID sensors\*
- Tool-free maintenance
- Addressable via a web portal
- Password protected menu
- Interface: **All Standard Now**
  - analog 4–20 mA output
  - RS-485 (Modbus/RTU)
  - 0/100 Mbit Ethernet (Modbus/TCP)
  - 5 Relays
- Bright status and alarm LEDs
- Data logger to review sensor history and alarms

\* Electrochemical and catalytic combustion sensors



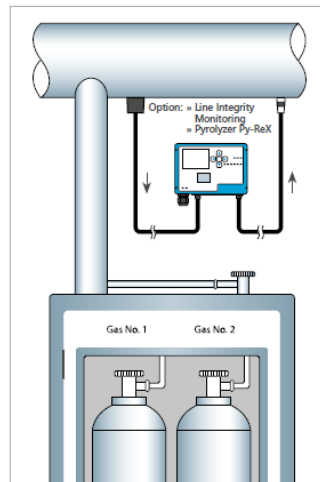
## Remote Gas Detection at the Point of Installation (PoI)

### USPs:

- Cable length up to 30 m / 100 ft
- Easy to install duct adapter
- High-resolution full-color display
- Plain text information
- Power over Ethernet (PoE) communication
- Bluetooth®
- Same sensor cartridge

### Options:

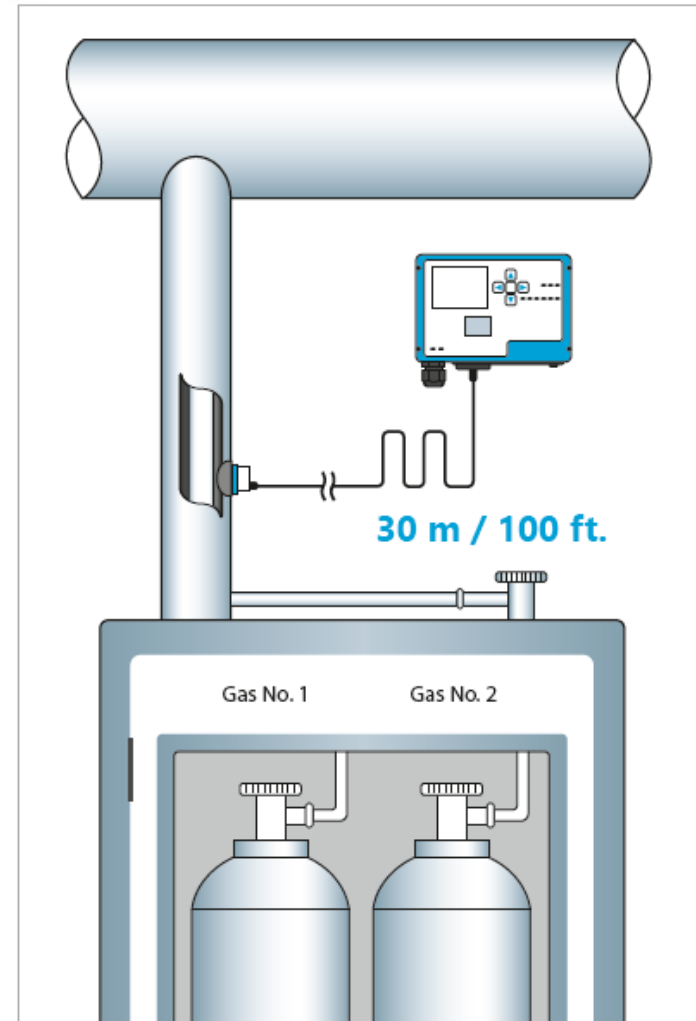
- LonWorks®





## Features:

- Sensors for more than 30 gases
- Sensors manufactured in Germany by sensoriX the original manufacturer of Satellite XT sensors
- Sensor cartridges for EC and CC sensors\*
- Hot-swappable smart sensor cartridges
- Tool-free maintenance
- Power over Ethernet (PoE) communication
- Addressable via a web portal
- Password protected menu
- Interface: **All Standard Now**
  - analog 4–20 mA output
  - RS-485 (Modbus/RTU)
  - 0/100 Mbit Ethernet (Modbus/TCP)
  - 5 relays
- Bright status and alarm LEDs
- Data logger to review sensor history and alarms



\* Electrochemical and catalytic combustion sensors

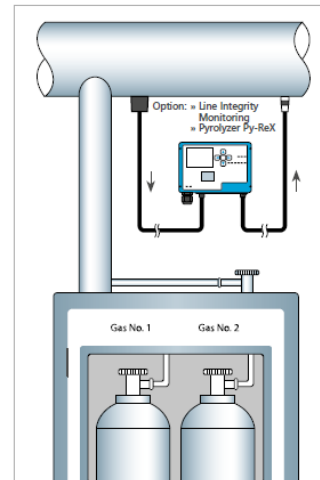
## eXtraction Mode Gas Detection at the Point of Sampling (PoS)

### USPs:

- Tube length up to 30 m / 100 ft
- Internal pump is easy to replace (only mechanical component)
- High-resolution, full-color display
- Plain text information
- Bluetooth®
- Same sensor cartridge
- 5 internal relays

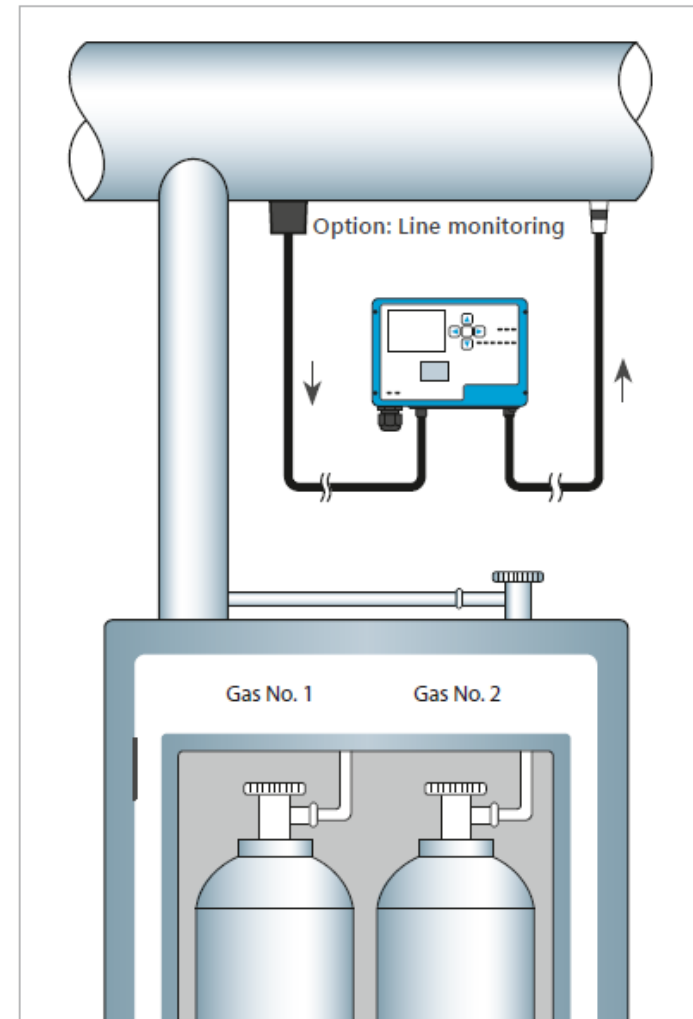
### Options:

- LonWorks®
- Line Integrity Monitoring (LIM)
- Py-ReX pyrolyzer module



## Features:

- Line Integrity Monitoring (option)
- Sensors for more than 30 gases
- Sensors manufactured in Germany by sensoriX the original manufacturer of Satellite XT sensors
- Sensor cartridges for EC and CC sensors\*
- Hot-swappable smart sensor cartridges
- Tool-free maintenance
- Power over Ethernet (PoE) communication
- Addressable via a web portal
- Password protected menu
- Interface: **All Standard Now**
  - analog 4–20 mA output
  - RS-485 (Modbus/RTU)
  - 0/100 Mbit Ethernet (Modbus/TCP)
  - 5 relays
- Bright status and alarm LEDs
- Data logger to review sensor history and alarms



\* Electrochemical and catalytic combustion sensors

## eXtraction Mode Gas Detection utilizing pyrolysis

### USPs:

- Detect electrochemically inactive gases
- Tube length still up to 30 m / 100 ft
- Easy to replace internal pump
- High-resolution, full-color display
- Plain text information
- Bluetooth®
- Same sensor cartridge


### Options:

- LonWorks®
- Line Integrity Monitoring (LIM)



## eXtraction Mode Gas Detection utilizing pyrolysis

### USPs:

- Detect electrochemically inactive gases
- Safe, tested and reliable technology
- No need for external pump
- No exposure to radiation 

### Options:

- Line Integrity Monitoring (LIM)

### Requirement!

- Py-ReX pyrolyzers are designed for the detection of a specific gas!



# New enclosure options for PoI and PoS



## Accessories

- Stainless steel knurled screws since 03.2024
- Push-pull hose plug-in adapter from 1/4"OD to 6mm for D-ReX and Py-ReX
- Particle filter 1 with one-sided connection for 6mm hose
- Particle filter 2 with connections on both sides for 6mm hoses
- Replacement filter elements for particle filter 2
- Particle filter PTFE with connections on both sides for 6mm or 1/4" hoses
- Touch protection insert for D-ReX Sensors

## EC Sensors

- MK487-10 GeH<sub>4</sub>- Germanium Hydrogen
- MK486-10 N<sub>2</sub>H<sub>4</sub>- Hydrazine
- MK485-10 H<sub>2</sub>Se- Hydrogen Selenide
- MK481-11 TMB- Trimethyl Borate
- MK401-10 H<sub>2</sub> ppm
- MK407-10 H<sub>2</sub> Vol%
- MK349-10 COCl<sub>2</sub>- Phosgene

## PID Sensors- VOCs

- MK463-10 iC<sub>4</sub>H<sub>8</sub> and others

## IR Sensors

- MK252-10 CO<sub>2</sub> 25(50) Vol%



## D-ReX Firmware

- Internal Data logger (access via WEB-Interface)
- Online Test for the Iout 4-20mA output (via DReX-Config software)
- GMA400 Controller compatibility-Modbus
- Additional functions and more safety for the DReX-App
- Login for DReX-Config software and DReX-App
- Optimization of the configuration via Modbus and LonWorks
- Optimization of the WEB-Interface
- Optimization of fault and service request messages
- Optimization of displays in the service menu and info screens
- Electrical EC sensor tests- Reflex- Every 16 hours

## Released Documents

### **Sensor Table**

**Manuals for PoU and PoI- PoS by end of September**

**Modbus Manual**

**LonWorks Manual**

**Bluetooth App Manual**

**Configuration Software installation guide**

(no configuration manual released yet)

**Individual Sensor Datasheets- 10 released to date**

(if you need a specific one let us know and SensoriX will put it together)

## Smart Sensors (EC)

Gas Name	Formula	Measuring Range
Ammonia	NH <sub>3</sub>	0-100 ppm
Ammonia	NH <sub>3</sub>	0-1000 ppm
Ammonia	NH <sub>3</sub>	5-5000 ppm
Arsine	AsH <sub>3</sub>	0-1 ppm
Arsine	AsH <sub>3</sub>	0-1 ppm
Bromine	Br <sub>2</sub>	0-5 ppm
Carbon monoxide	CO	0-500 ppm
Chlorine	Cl <sub>2</sub>	0-10 ppm
Chlorine dioxide	ClO <sub>2</sub>	0-2 ppm
Chlorine trifluoride	ClF <sub>3</sub>	0-1 ppm
Diborane	B <sub>2</sub> H <sub>6</sub>	0-1 ppm
Ethylene oxide	ETO	2-20 ppm
Fluorine	F <sub>2</sub>	0-5 ppm
Germanium hydrogen	GeH <sub>4</sub>	0-5 ppm
Hexamethyldisilazane	HMDS	0-0.5 vol %
Hydrazine	N <sub>2</sub> H <sub>4</sub>	0-1 ppm
Hydrogen	H <sub>2</sub>	20-2000 ppm
Hydrogen	H <sub>2</sub>	0-1 vol %

## Smart Sensors (EC)

Gas Name	Formula	Measuring Range
Hydrogen	H <sub>2</sub>	0-4 vol %
Hydrogen bromide	HBr	1-30 ppm
Hydrogen chloride	HCl	0-30 ppm
Hydrogen cyanide	HCN	0-30 ppm
Hydrogen fluoride	HF	0-10 ppm
Hydrogen selenide	H <sub>2</sub> Se	0-5 ppm
Hydrogen sulfide	H <sub>2</sub> S	0-100 ppm
Nitrogen dioxide	NO <sub>2</sub>	0-30 ppm
Nitrogen monoxide	NO	2-100 ppm
Oxygen	O <sub>2</sub>	0-25 vol %
Ozone	O <sub>3</sub>	0-1 ppm
Ozone	O <sub>3</sub>	0-5 ppm
Phosgene	COCl <sub>2</sub>	0-1 ppm
Phosphine	PH <sub>3</sub>	0-1 ppm
Silane	SiH <sub>4</sub>	0-50 ppm
Sulfur dioxide	SO <sub>2</sub>	0-20 ppm
Tetraethyl orthosilicate	TEOS	0-100 ppm
Trimethyl borate	TMB	5-500 ppm

## Smart Sensors (CC)

Gas Name	Formula	Measuring Range
flammable gases*	LEL	2,5-100 % LEL

## Smart Sensors (IR)

Gas Name	Formula	Measuring Range
Carbon dioxide	CO <sub>2</sub>	0-5 vol %
Carbon dioxide	CO <sub>2</sub>	0-1 vol %
Methane	CH <sub>4</sub>	0-5 vol %
Nitrous Oxide	N <sub>2</sub> O	100-1000 ppm
Nitrous Oxide	N <sub>2</sub> O	0-1 vol %
Propane	C <sub>3</sub> H <sub>8</sub>	0-2 vol %

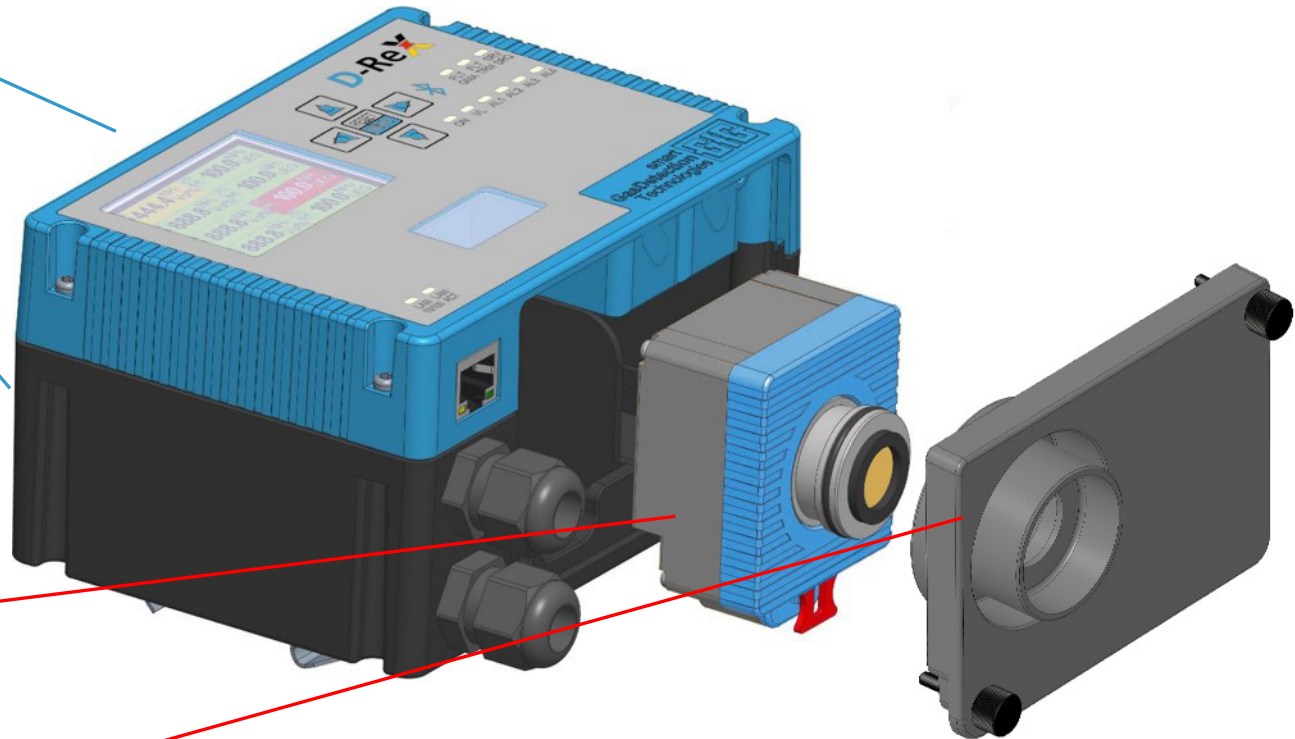
## Smart Sensors (EC for use with a Pyrolyzer) \*

Gas Name	Formula	Measuring Range
Fluoromethane	CH <sub>3</sub> F	0-120 ppm
Hexafluorobutadiene	C <sub>4</sub> F <sub>6</sub>	0-40 ppm
Nitrogen trifluoride	NF <sub>3</sub>	0-40 ppm
Octafluorocyclopentene	C <sub>5</sub> F <sub>8</sub>	0-40 ppm
Sulfur hexafluoride	SF <sub>6</sub>	0-0,5 vol %

\* Available as soon as the corresponding pyrolyzer is available.

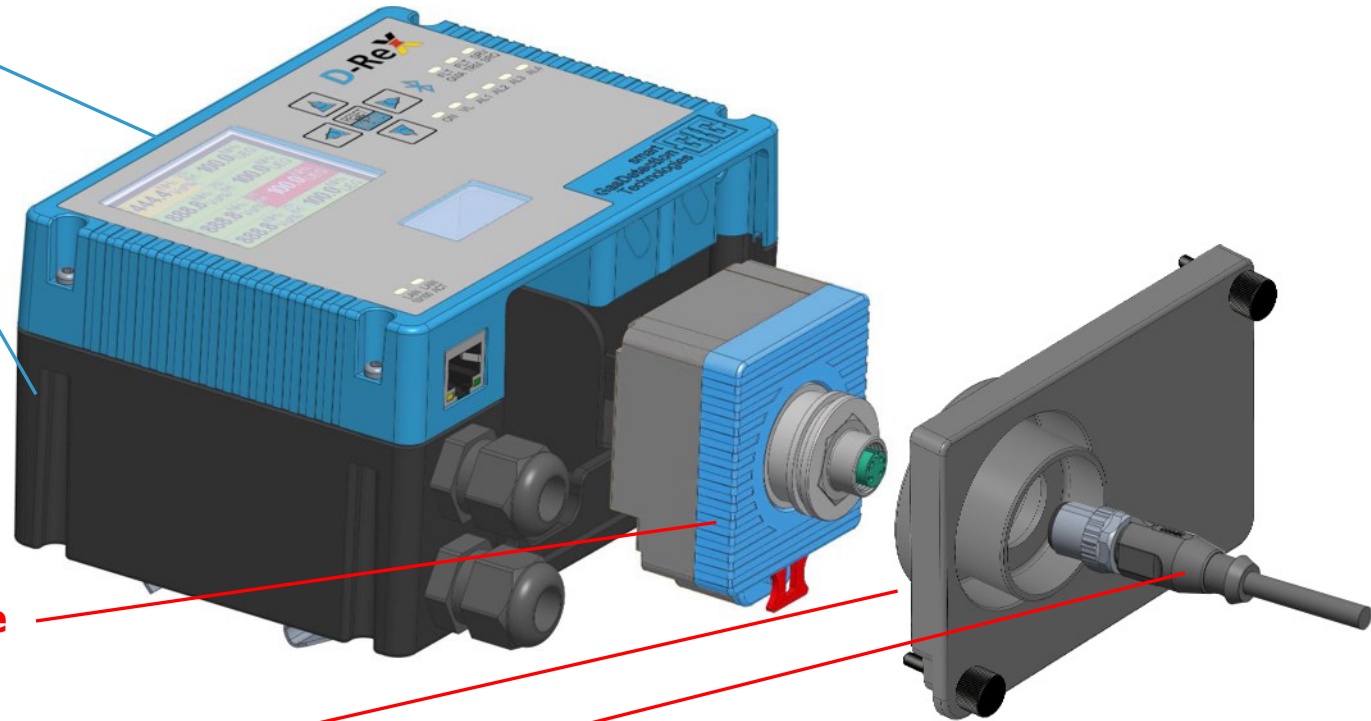
## Assemblies PoU

- Housing lid
- Housing
- Sensor cartridge
- Lower housing cover



## Assemblies PoI

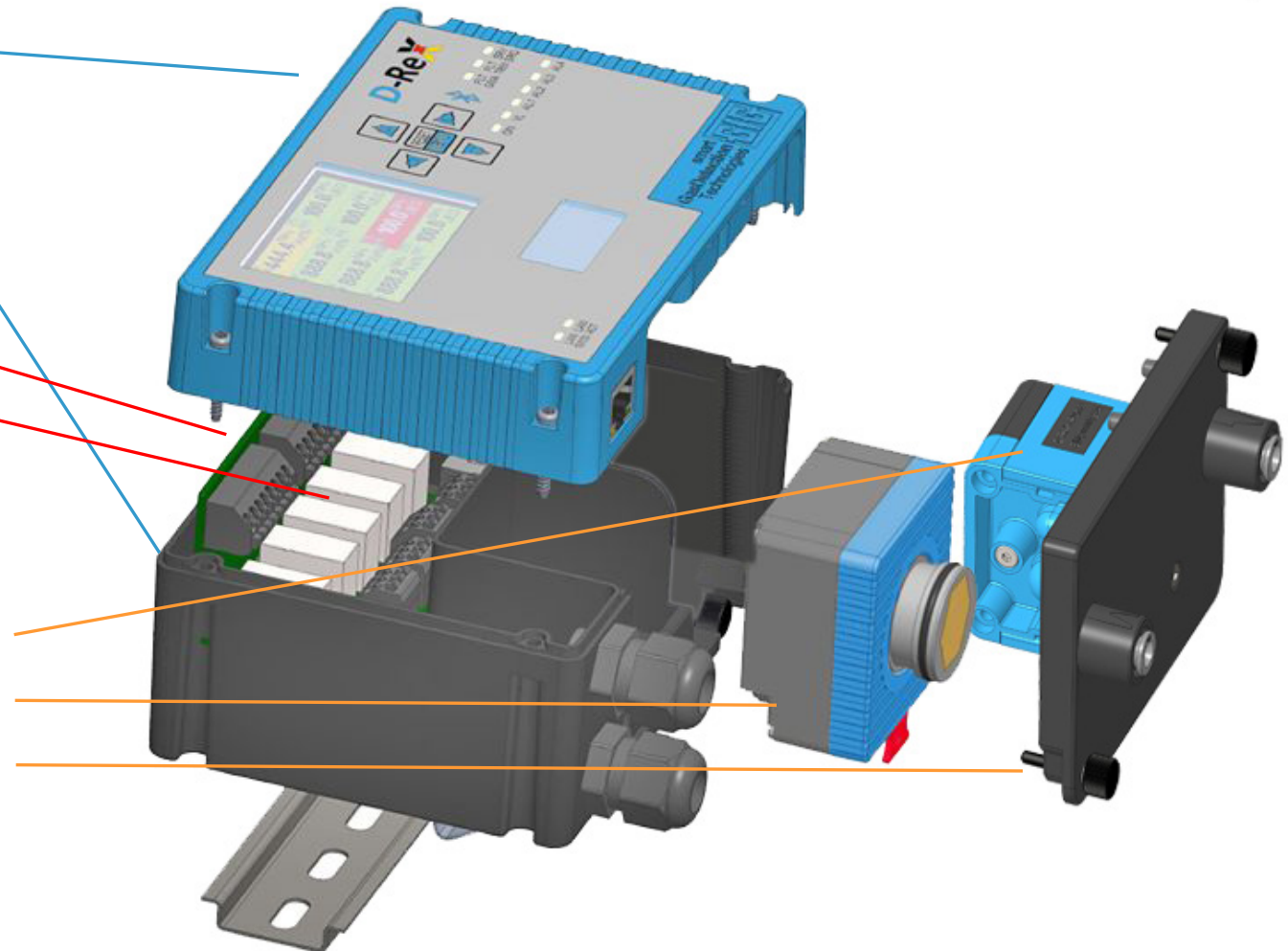
- Housing lid
- Housing



- **Connector cartridge**
- Lower housing cover
- Cable to remote sensor

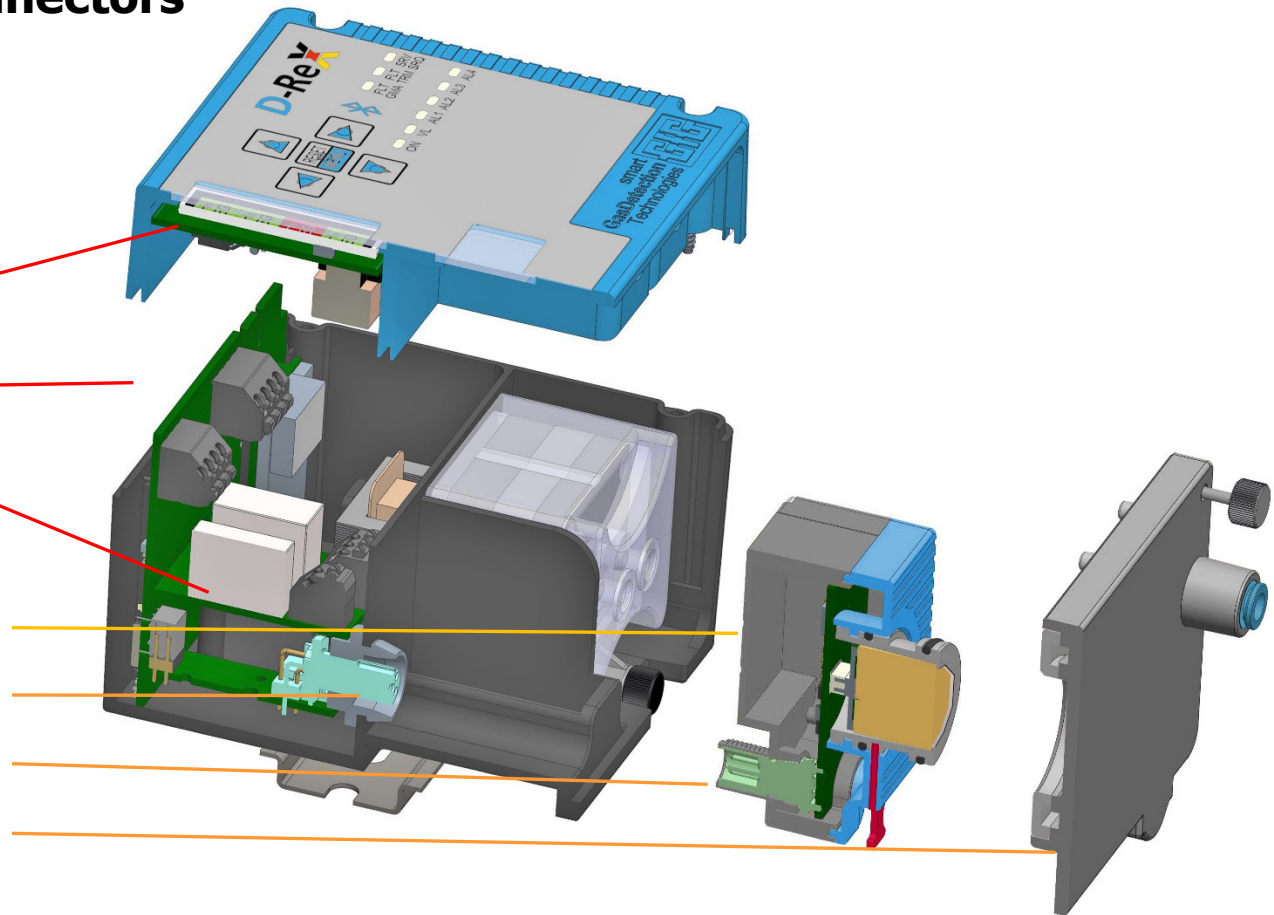
## Assemblies PoS

- Housing lid
- Housing
- Connector PCB
- Relay PCB
- Pump
- Sensor cartridge
- Lower housing cover



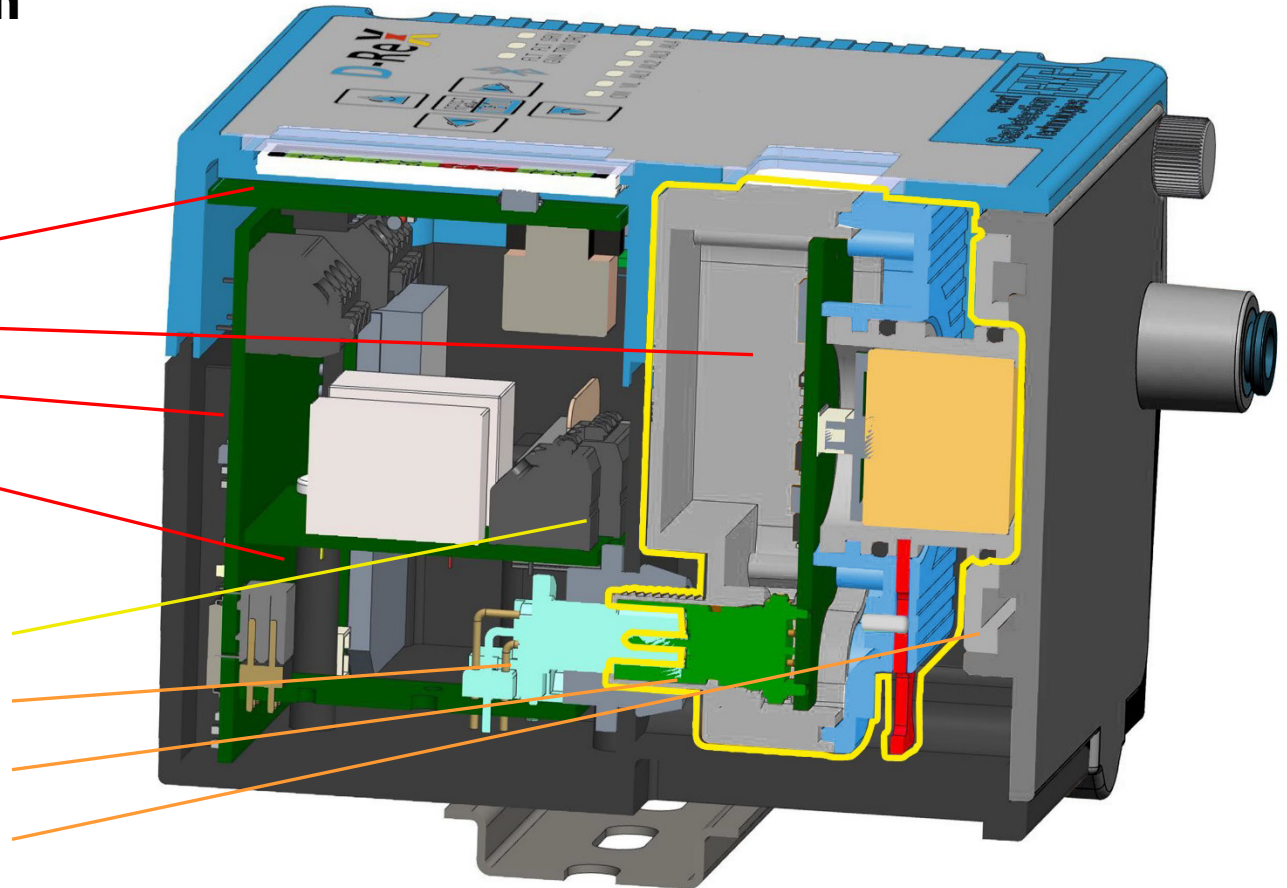
## Assemblies and connectors

- Housing lid
- Housing
- Main PCB
- Connector PCB
- Relay PCB
- Pump
- Sensor cartridge
- M12 connector (female)
- M12 connector (male)
- Lower housing cover with gas channel



## Longitudinal section

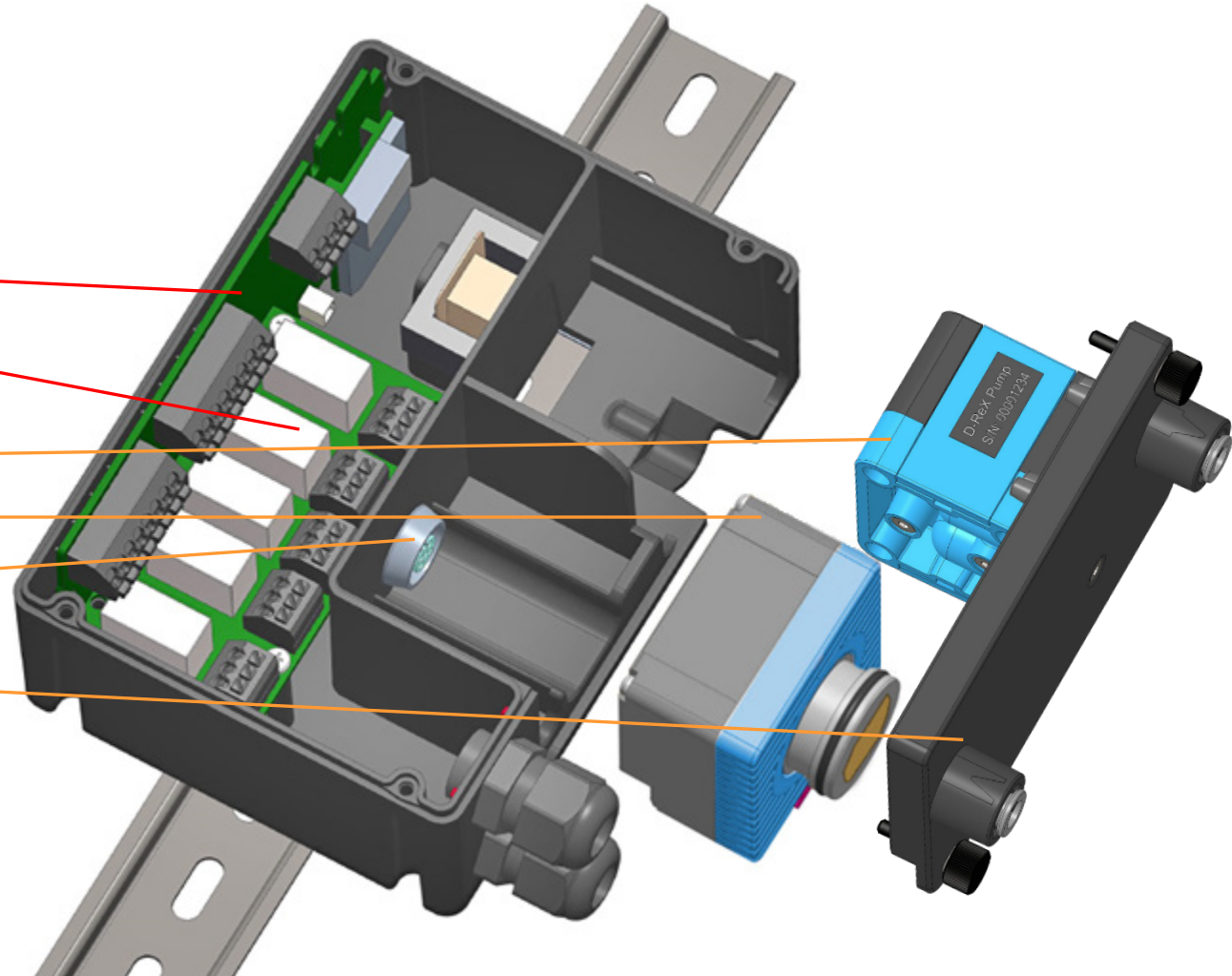
- Housing lid
- Housing
- Main PCB
- Sensor PCB
- Connector PCB
- Relay PCB
- Sensor Cartridge
- M12 Connector (female)
- M12 Connector (male)
- Lower housing cover with gas channel



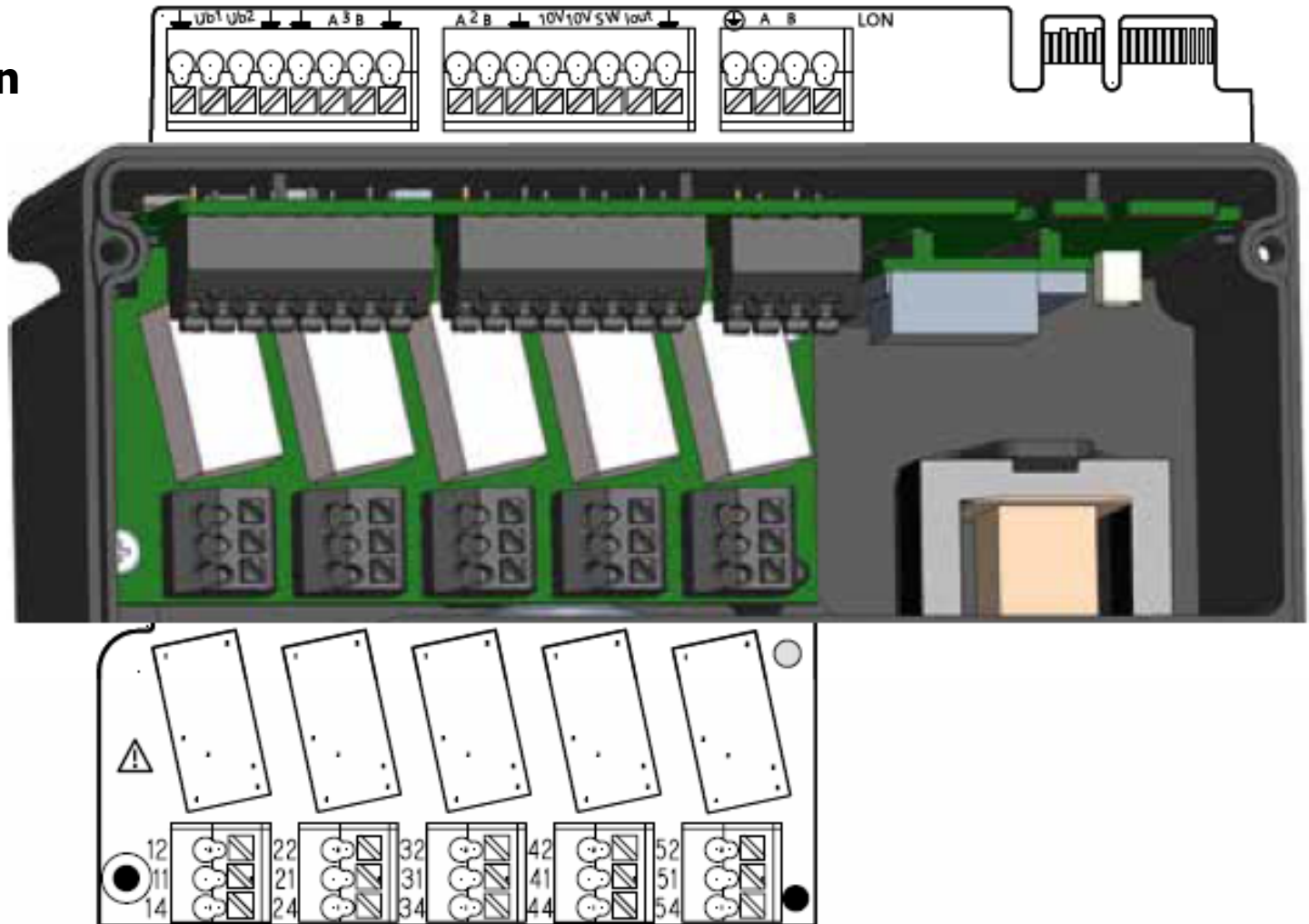


## Horizontal Section

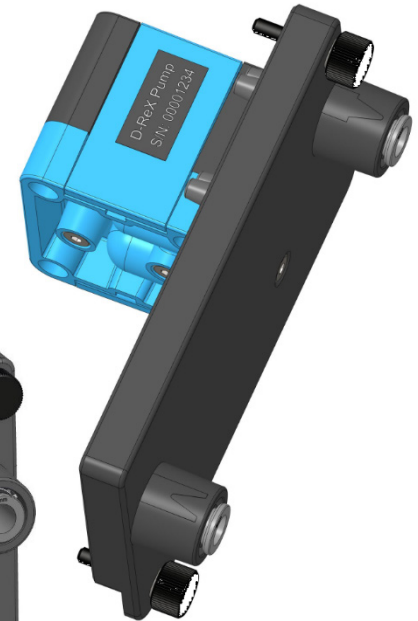
- Housing
- Connector PCB
- Relay PCB
- Pump
- Sensor cartridge
- M12 Connector (female)
- Lower housing cover with gas channel



## Terminal allocation



## Lower housing covers

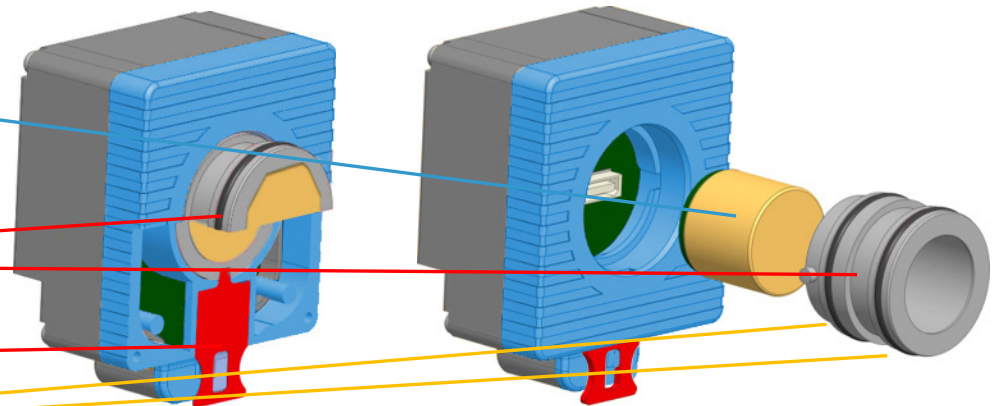


Diffusion mode and remote sensor

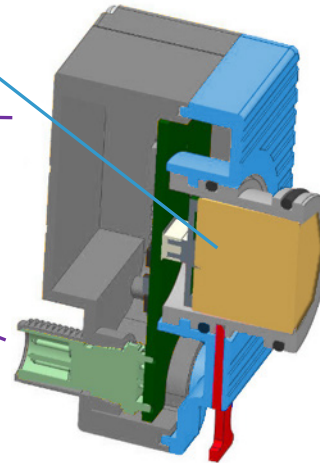
Extraction mode

## Sensor Cartridge

- Sensor
- Pipe flange adapter (bayonet lock, removable)
- Lock pin of bayonet lock
- O-ring

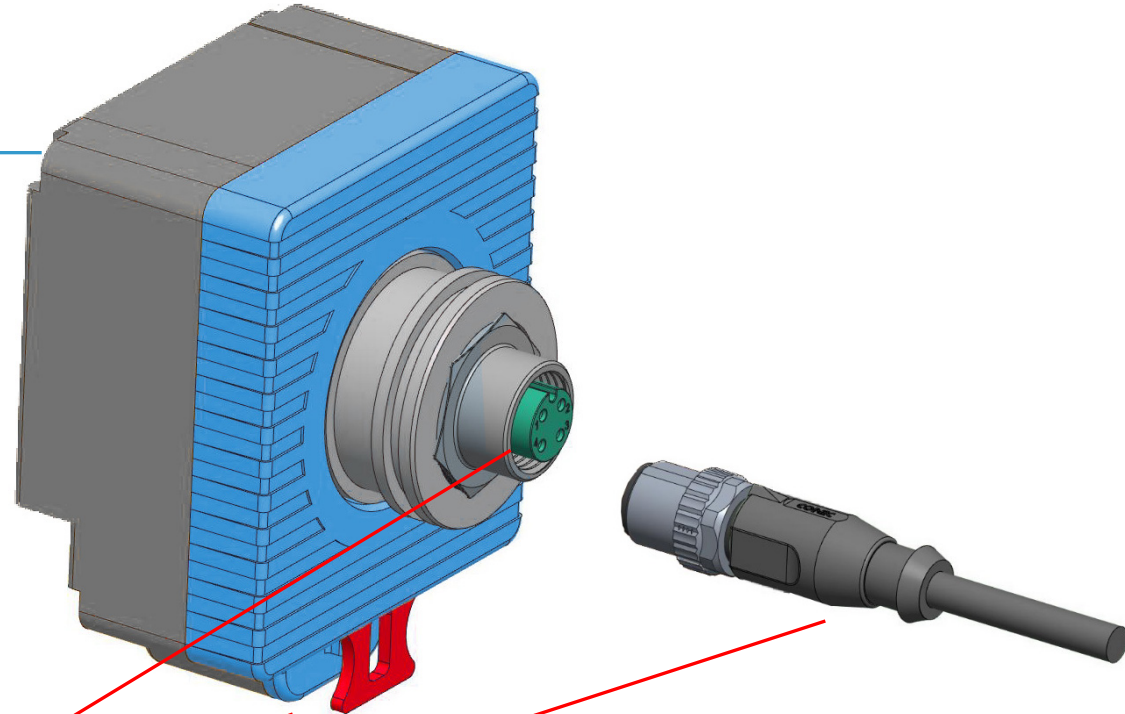


- Sensor cartridge
- M12 connector (male)



## Connector cartridge

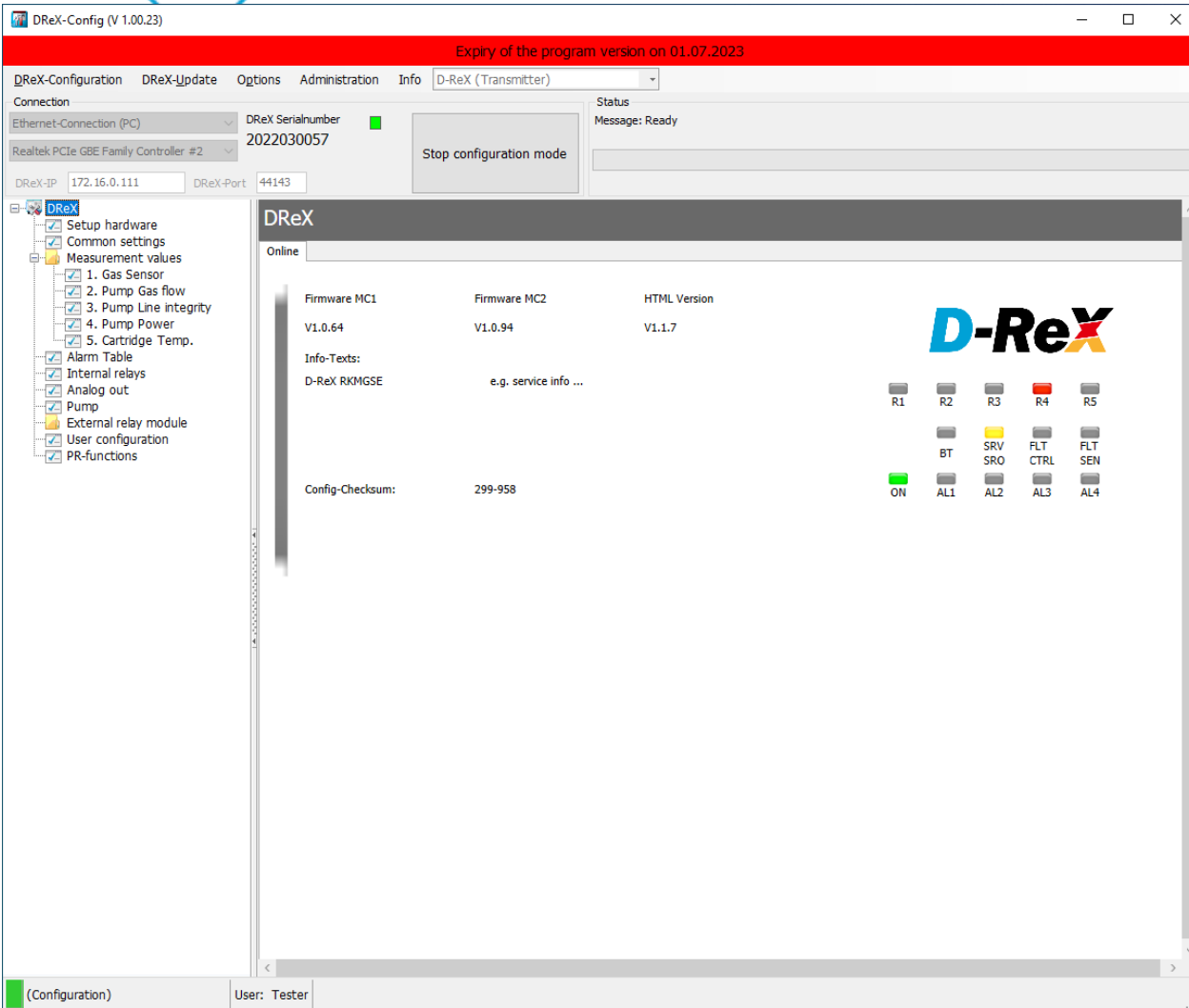
➤ Connector cartridge



➤ M12 connector (female)

➤ Lock pin of bayonet lock

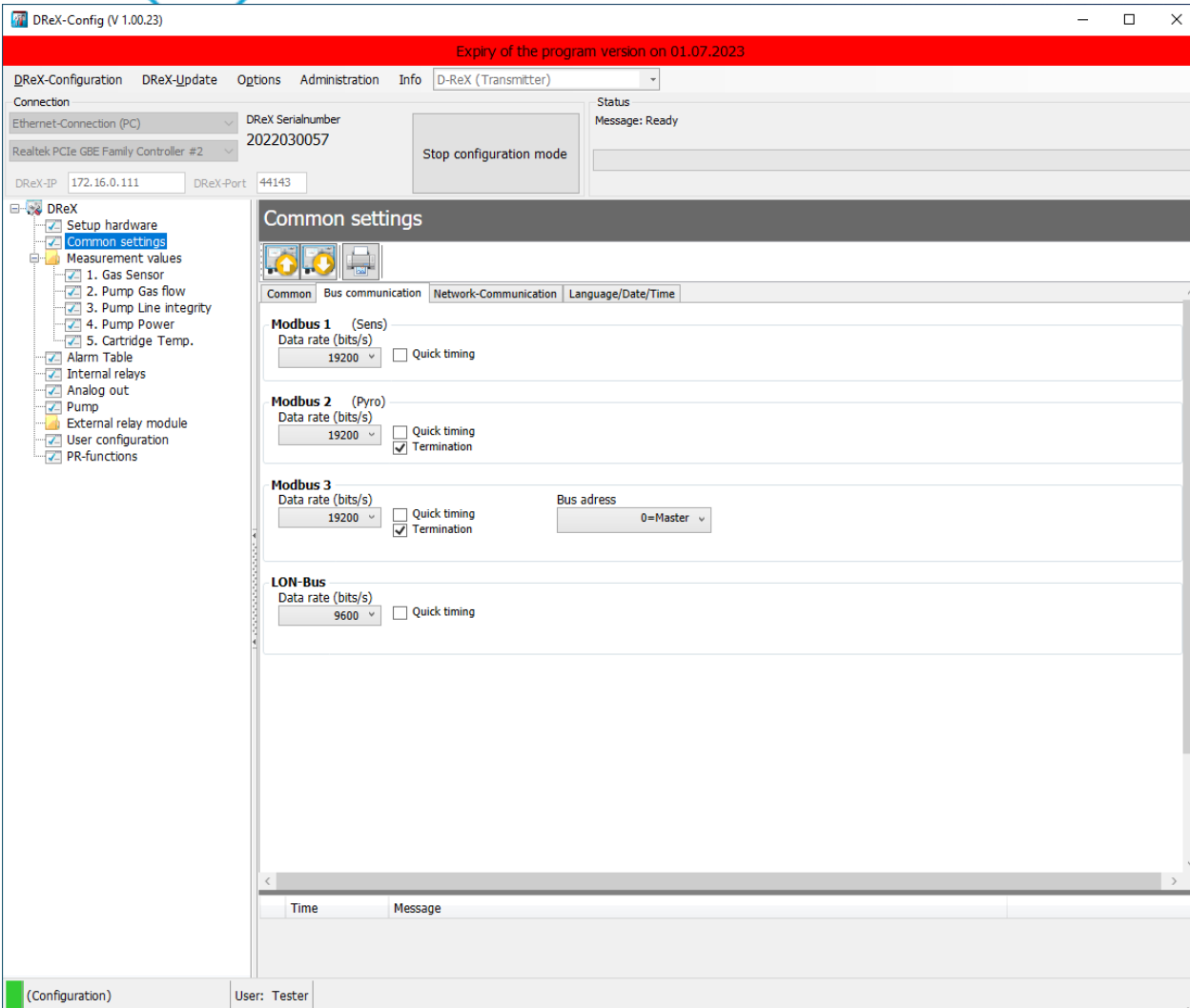
➤ Cable with M12 connector (male)



The screenshot displays the D-ReX-Config (V 1.00.23) software interface. A red banner at the top indicates an expiration date of 01.07.2023. The main window is divided into several sections:

- Connection:** Shows Ethernet-Connection (PC) and Realtek PCIe GBE Family Controller #2. The DRex Serialnumber is 2022030057. A green status indicator is present.
- Status:** Message: Ready.
- DRex:** A central panel showing the device's status as "Online". It includes:
  - Firmware MC1:** V1.0.64
  - Firmware MC2:** V1.0.94
  - HTML Version:** V1.1.7
  - Info-Texts:** D-ReX RKMGE, e.g. service info ...
  - Config-Checksum:** 299-958
- Hardware Indicators:** A grid of status icons for R1-R5, BT, SRV SRO, AL1-AL4, and FLT CTRL/SEN.
- Left Sidebar:** A tree view of configuration options, including Setup hardware, Common settings, Measurement values (Gas Sensor, Pump Gas flow, Pump Line integrity, Pump Power, Cartridge Temp.), Alarm Table, Internal relays, Analog out, Pump, External relay module, User configuration, and PR-functions.
- Bottom Bar:** Shows "(Configuration)" and "User: Tester".

**Home:**  
**Real-time information**  
**on the D-ReX**  
**currently connected**  
**to the computer**



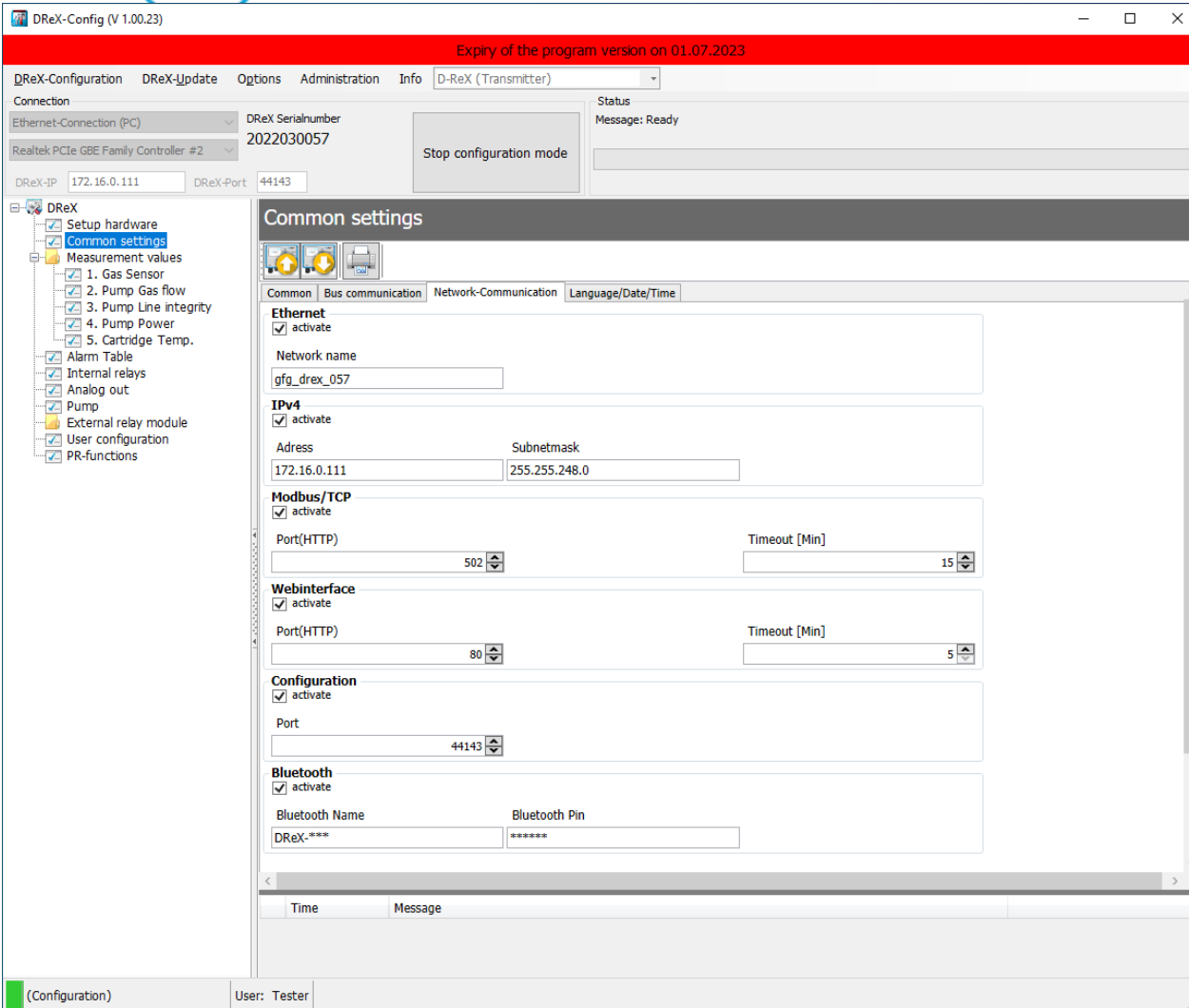
The screenshot shows the D-ReX-Config (V 1.00.23) software interface. A red banner at the top indicates "Expiry of the program version on 01.07.2023". The main window is titled "D-ReX-Configuration" and has tabs for "DReX-Update", "Options", "Administration", and "Info". The "Info" tab is selected, showing "D-ReX (Transmitter)".

The interface is divided into several sections:

- Connection:** Shows "Ethernet-Connection (PC)" and "Realtek PCIe GBE Family Controller #2". The "DRex-IP" is 172.16.0.111 and "DRex-Port" is 44143. The "DRex Serialnumber" is 2022030057. A "Stop configuration mode" button is visible.
- Status:** Shows "Message: Ready".
- DRex:** A tree view on the left contains various settings categories, with "Common settings" highlighted.
- Common settings:** The main panel shows tabs for "Common", "Bus communication", "Network-Communication", and "Language/Date/Time". The "Bus communication" tab is active, displaying settings for three Modbus buses and one LON-Bus:
  - Modbus 1 (Sens):** Data rate (bits/s) is 19200. "Quick timing" is unchecked.
  - Modbus 2 (Pyro):** Data rate (bits/s) is 19200. "Quick timing" is unchecked, and "Termination" is checked.
  - Modbus 3:** Data rate (bits/s) is 19200. "Quick timing" is unchecked, "Termination" is checked, and "Bus adress" is 0=Master.
  - LON-Bus:** Data rate (bits/s) is 9600. "Quick timing" is unchecked.
- Log:** A table at the bottom with columns "Time" and "Message".
- Footer:** Shows "(Configuration)" and "User: Tester".

**Common settings  
e.g. bus and  
connection settings...**

... the network  
communication ...

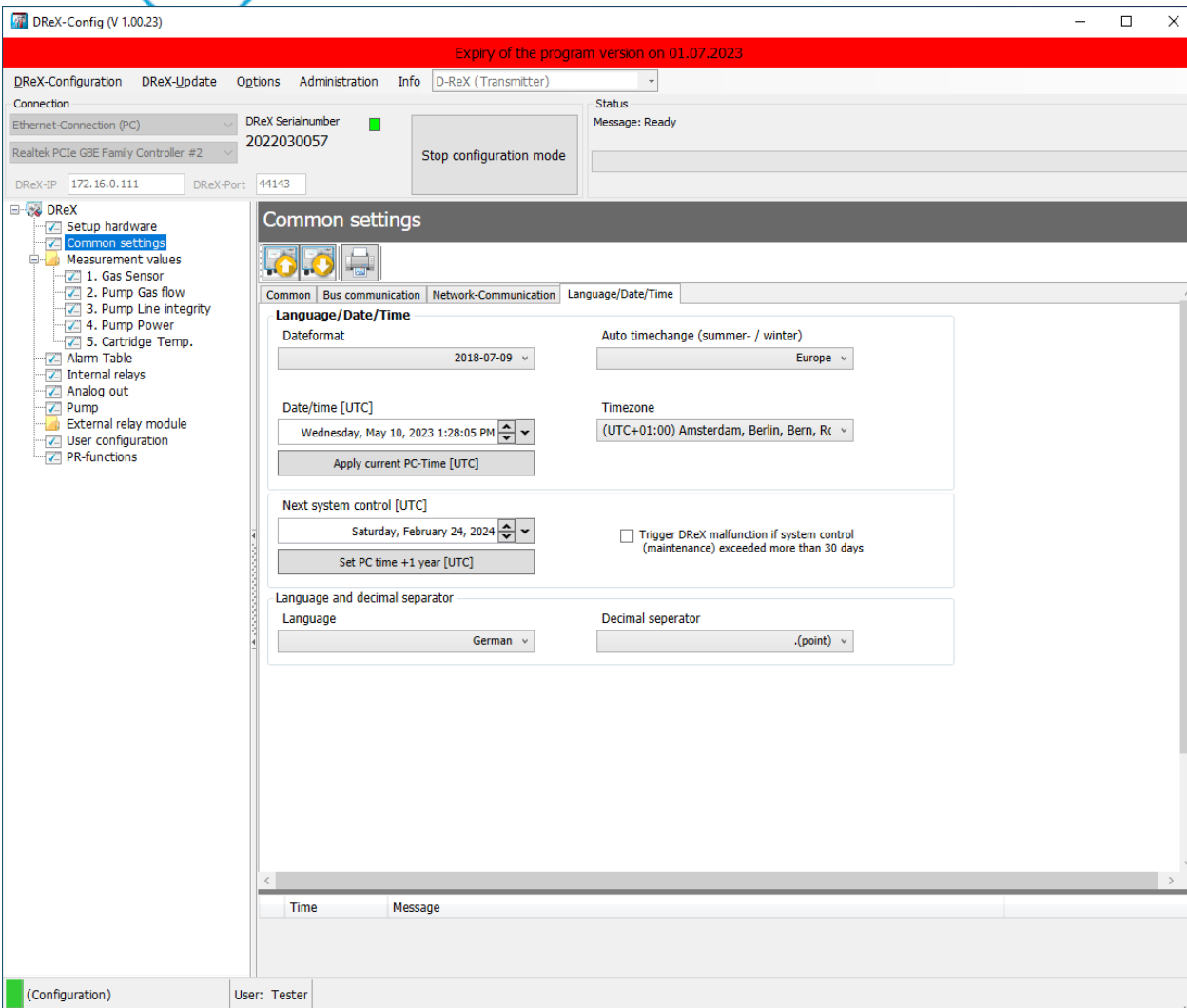


The screenshot displays the D-ReX-Config (V 1.00.23) software interface. At the top, a red banner indicates an expiry date of 01.07.2023. The main window is titled "D-ReX-Configuration" and includes a menu bar with "DReX-Update", "Options", "Administration", and "Info". The "D-ReX (Transmitter)" configuration is selected. The interface is divided into several sections:

- Connection:** Shows "Ethernet-Connection (PC)" and "Realtek PCIe GBE Family Controller #2". The "DReX-IP" is set to 172.16.0.111 and "DReX-Port" is 44143. A "Status" section shows "Message: Ready".
- DRex:** A tree view on the left contains various settings, with "Common settings" highlighted.
- Common settings:** The main panel shows tabs for "Common", "Bus communication", "Network-Communication", and "Language/Date/Time". The "Network-Communication" tab is active, displaying:
  - Ethernet:** Checked "activate", "Network name" is "gfg\_drex\_057".
  - IPv4:** Checked "activate", "Address" is 172.16.0.111 and "Subnetmask" is 255.255.248.0.
  - Modbus/TCP:** Checked "activate", "Port(HTTP)" is 502 and "Timeout [Min]" is 15.
  - Webinterface:** Checked "activate", "Port(HTTP)" is 80 and "Timeout [Min]" is 5.
  - Configuration:** Checked "activate", "Port" is 44143.
  - Bluetooth:** Checked "activate", "Bluetooth Name" is "DReX-\*\*\*" and "Bluetooth Pin" is "\*\*\*\*\*".

The bottom status bar shows "(Configuration)" and "User: Tester".





The screenshot displays the D-ReX-Config (V 1.00.23) software interface. At the top, a red banner indicates the program's expiry date: "Expiry of the program version on 01.07.2023". The main menu includes "DReX-Configuration", "DReX-Update", "Options", "Administration", and "Info". The "Info" tab is active, showing details for the "D-ReX (Transmitter)".

Key information displayed includes:

- Connection: Ethernet-Connection (PC)
- DReX Serialnumber: 2022030057
- DReX-IP: 172.16.0.111
- DReX-Port: 44143
- Status: Message: Ready

The "Common settings" section is expanded, showing a tree view on the left with "Common settings" selected. The "Language/Date/Time" tab is active, displaying the following settings:

- Language/Date/Time**
  - Dateformat: 2018-07-09
  - Auto timechange (summer- / winter): Europe
  - Date/time [UTC]: Wednesday, May 10, 2023 1:28:05 PM
  - Timezone: (UTC+01:00) Amsterdam, Berlin, Bern, Rt
  - Next system control [UTC]: Saturday, February 24, 2024
  - Language and decimal separator: German, .(point)

The interface also shows a "Stop configuration mode" button and a "User configuration" section at the bottom left.

**... and the language and date/time settings.**

DRex-Config (V 1.00.23) Expiry of the program version on 01.07.2023

DRex-Configuration DRex-Update Options Administration Info D-ReX (Transmitter)

Connection: Ethernet-Connection (PC) DRex Serialnumber: 2022030057 Status: Message: Ready  
 Realtek PCIe GBE Family Controller #2 Stop configuration mode  
 DRex-IP: 172.16.0.111 DRex-Port: 44143

**Measurement value overview**

Common Online Data

Measure value	Activation	Inhibition	Description	TRM type	Measure range	Connection
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Gas Sensor	DRex IR	0...5.00 Vol.% CO2	Modbus 1 (Adr. 1)
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pump Gas flow	DRex Internal	0...1.50 slpm Q	Internal (dp-Sensor1 (Pumpflow))
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pump Line integrity	DRex Internal	-5.00...5.00 kPa p	Internal (dp-Sensor2 (Line Integrity))
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pump Power	DRex Internal	0...100 %	Internal (Control value pump)
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cartridge Temp.	DRex EC	-30.0...70.0 °C Temp	Modbus 1 (Adr. 11)
6	<input type="checkbox"/>	<input type="checkbox"/>	D-ReX int. Temp.	DRex Internal	-20.0...100.0 °C Temp	Internal (Internal temperature)
7	<input type="checkbox"/>	<input type="checkbox"/>	D-ReX Power 1	DRex Internal	0...30.00 V Sig.	Internal (Upwr1 (Supply voltage))
8	<input type="checkbox"/>	<input type="checkbox"/>	D-ReX Power 2	DRex Internal	0...30.00 V Sig.	Internal (Upwr2 (Supply voltage))

Time Message

(Configuration) User: Tester

**Overview of all measuring points with sub-menu to configure each one individually.**

DRex-Config (V 1.00.23) Expiry of the program version on 01.07.2023

DRex-Configuration DRex-Update Options Administration Info D-ReX (Transmitter)

Connection Ethernet-Connection (PC) DReX Serialnumber 2022030057 Status Message: Ready  
Realtek PCIe GBE Family Controller #2 Stop configuration mode  
DReX-IP 172.16.0.111 DReX-Port 44143

DRex

- Setup hardware
- Common settings
- Measurement values
  - 1. Gas Sensor
  - 2. Pump Gas flow
  - 3. Pump Line integrity
  - 4. Pump Power
  - 5. Cartridge Temp.
- Alarm Table
- Internal relays**
- Analog out
- Pump
- External relay module
- User configuration
- PR-functions

### Internal relays

Common Online Data

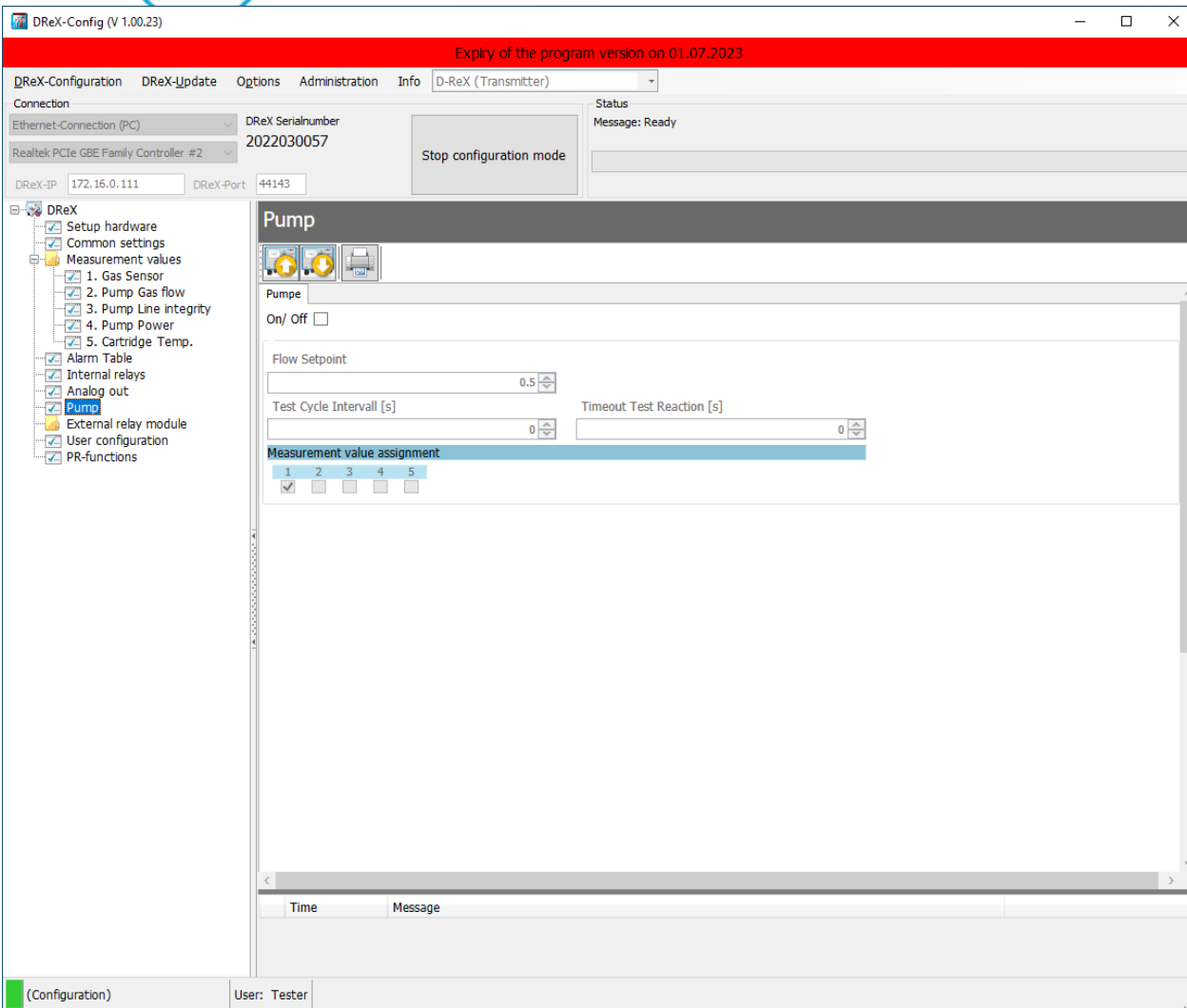
Relay	Description (text)	Functionality	Inhibition	Operation principle	Voting	Measurement value assignment
1	Rel.-AL1	AL1	<input type="checkbox"/>	Open-circuit	Off	1 2 3 4 5 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
2	Rel.-AL2	AL2	<input type="checkbox"/>	Open-circuit	Off	1 2 3 4 5 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
3	Rel.-AL3	AL3	<input type="checkbox"/>	Open-circuit	Off	1 2 3 4 5 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
4	Rel.-Wartung	SRV-SEN,SRV-CTRL	<input type="checkbox"/>	Open-circuit	Off	1 2 3 4 5 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
5	Rel.-Störung	FLT-SEN,FLT-CTRL	<input type="checkbox"/>	Closed-circuit	Off	1 2 3 4 5 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

Time Message

(Configuration) User: Tester

**Menu for configuring and assigning the internal relays.**

## Pump configuration



The screenshot shows the D-ReX-Config (V 1.00.23) software interface. At the top, a red banner displays "Expiry of the program version on 01.07.2023". The main menu includes "DReX-Configuration", "DReX-Update", "Options", "Administration", and "Info". The "Info" tab is active, showing "D-ReX (Transmitter)".

The interface is divided into several sections:

- Connection:** Shows "Ethernet-Connection (PC)" and "Realtek PCIe GBE Family Controller #2". The "DReX Serialnumber" is 2022030057. A "Stop configuration mode" button is present.
- Status:** Shows "Message: Ready".
- DReX-IP:** 172.16.0.111
- DReX-Port:** 44143

The left sidebar contains a tree view with the following items:

- Setup hardware
- Common settings
- Measurement values
  - 1. Gas Sensor
  - 2. Pump Gas flow
  - 3. Pump Line integrity
  - 4. Pump Power
  - 5. Cartridge Temp.
- Alarm Table
- Internal relays
- Analog out
- Pump** (highlighted)
- External relay module
- User configuration
- PR-functions

The main area is titled "Pump" and contains the following configuration options:

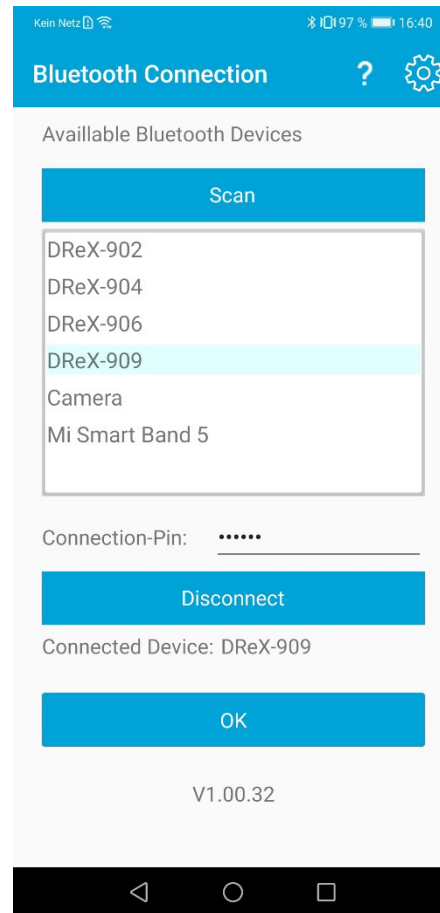
- Flow Setpoint: 0.5
- Test Cycle Intervall [s]: 0
- Timeout Test Reaction [s]: 0
- Measurement value assignment table:

1	2	3	4	5
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

At the bottom, there is a "Time" and "Message" log area, and a status bar showing "(Configuration)" and "User: Tester".

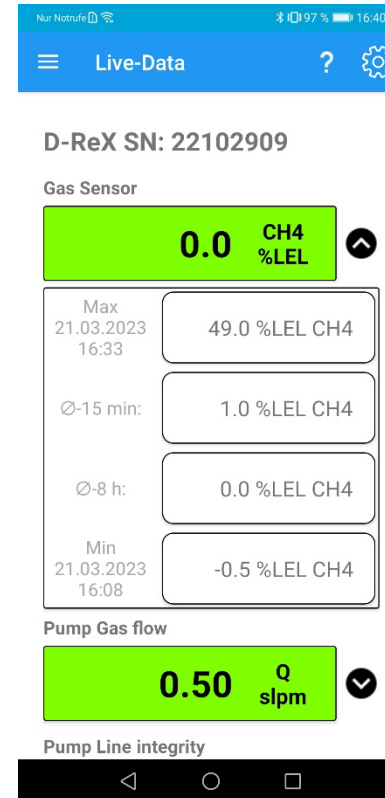
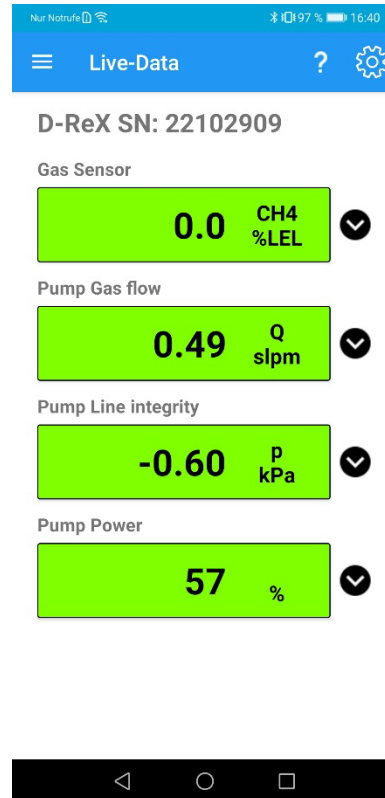
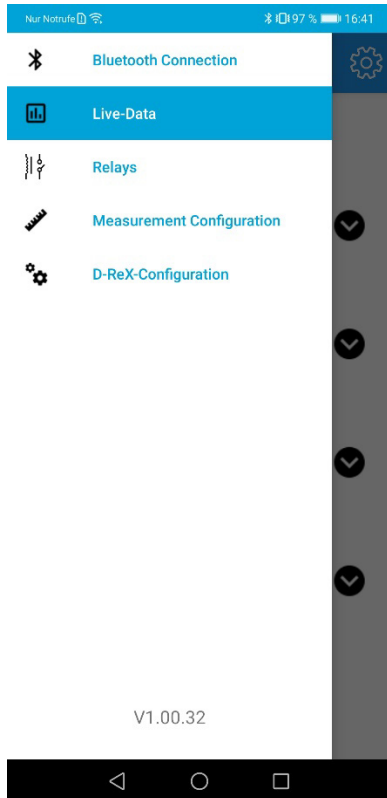
## Bluetooth

### ➤ Device Connection



## Live data

### ➤ Measurement values



## Live data

### ➤ Measurement values

Nur Notrufe 97% 16:41

- Bluetooth Connection
- Live-Data**
- Relays
- Measurement Configuration
- D-ReX-Configuration

V1.00.32

Nur Notrufe 97% 16:40

Live-Data

D-ReX SN: 22102909

Gas Sensor: 0.0 CH4 %LEL

Pump Gas flow: 0.49 Q slpm

Pump Line integrity: -0.60 P kPa

Pump Power: 57 %

Nur Notrufe 97% 18:11

Live-Data

D-ReX SN: 22102909

Gas Sensor: Alarm 1 35.5 CH4 %LEL

Pump Gas flow: 0.50 Q slpm

Pump Line integrity: -0.61 P kPa

Pump Power: 56 %

Nur Notrufe 97% 18:11

Live-Data

D-ReX SN: 22102909

Gas Sensor: Alarm 2 45.0 CH4 %LEL

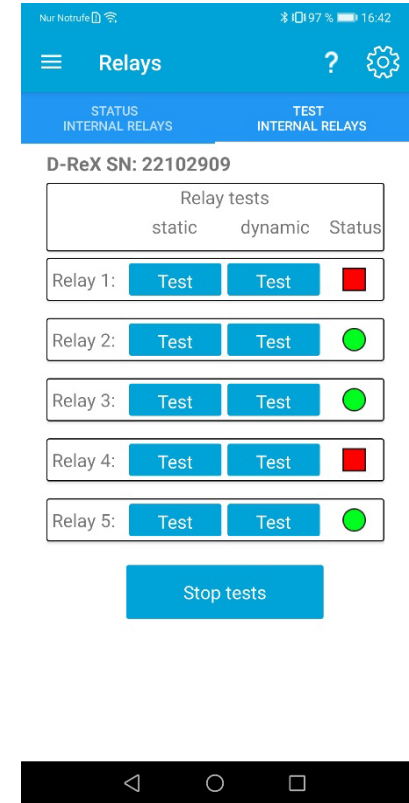
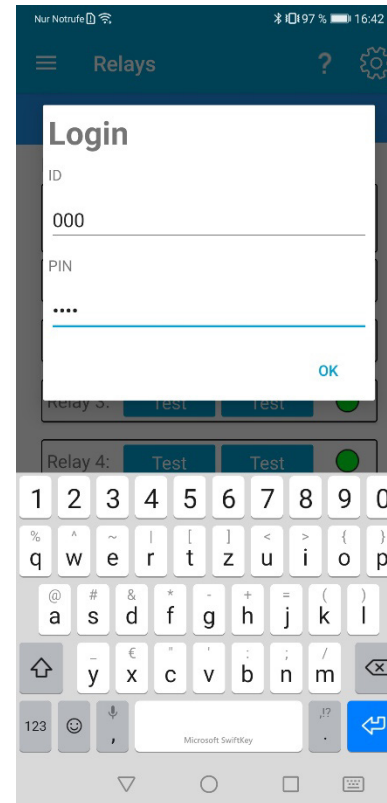
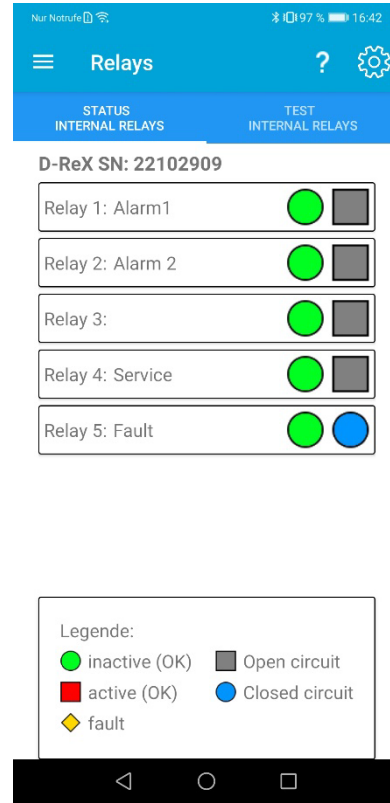
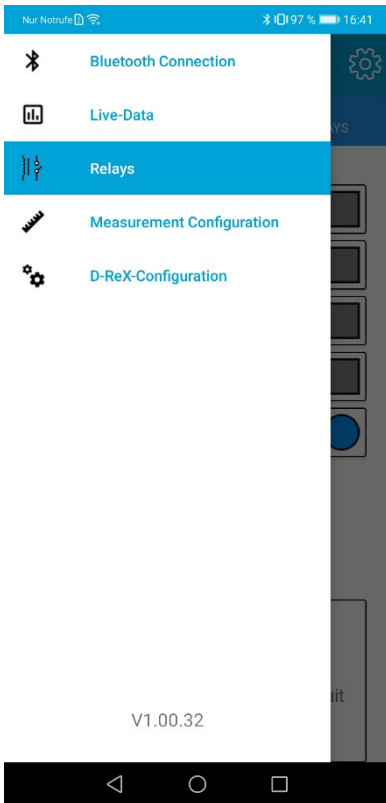
Pump Gas flow: 0.50 Q slpm

Pump Line integrity: -0.60 P kPa

Pump Power: 56 %

## Relays

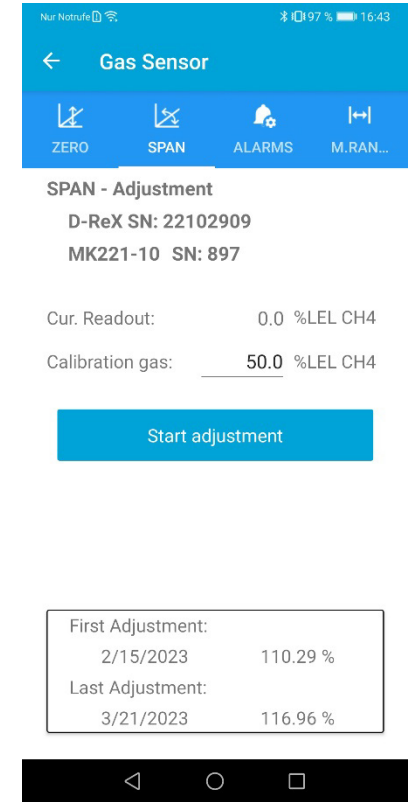
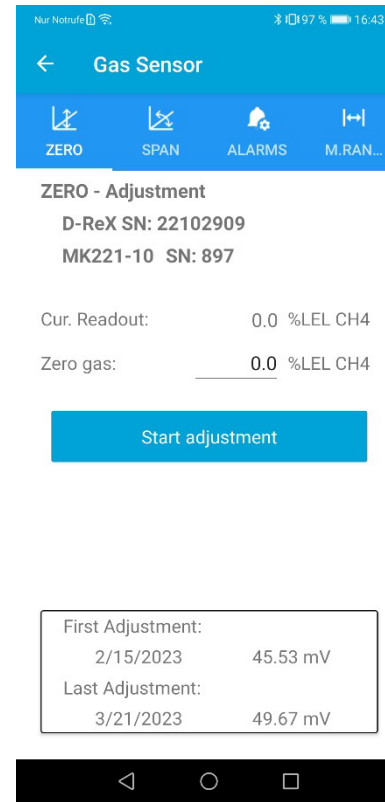
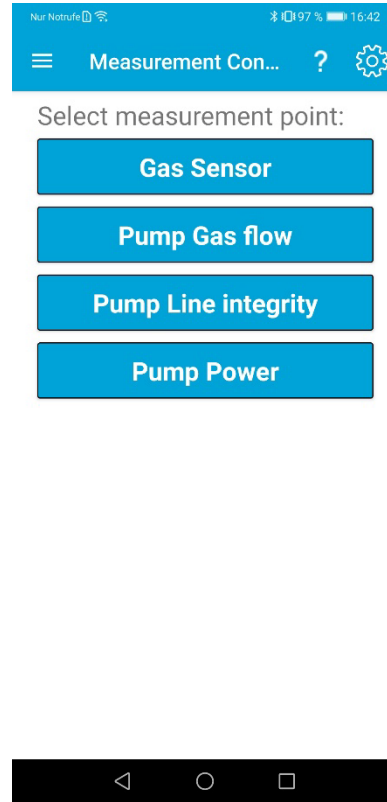
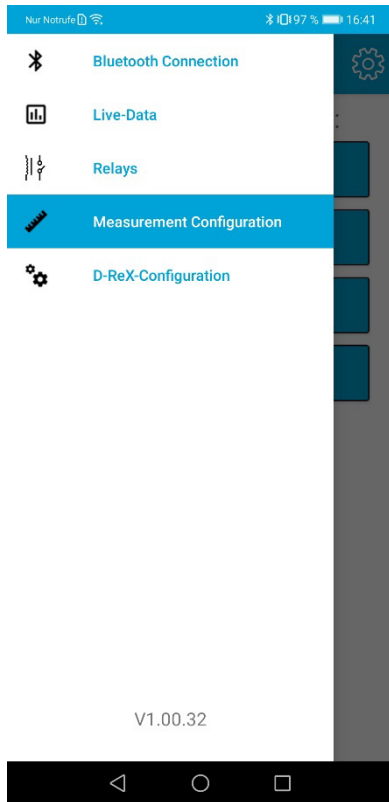
### ➤ Status and tests





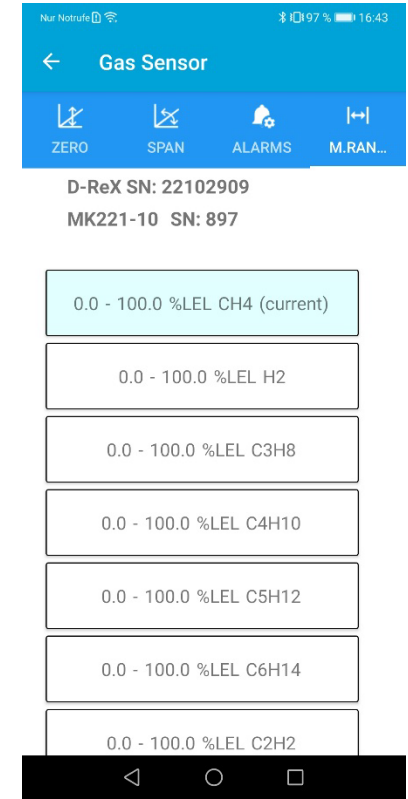
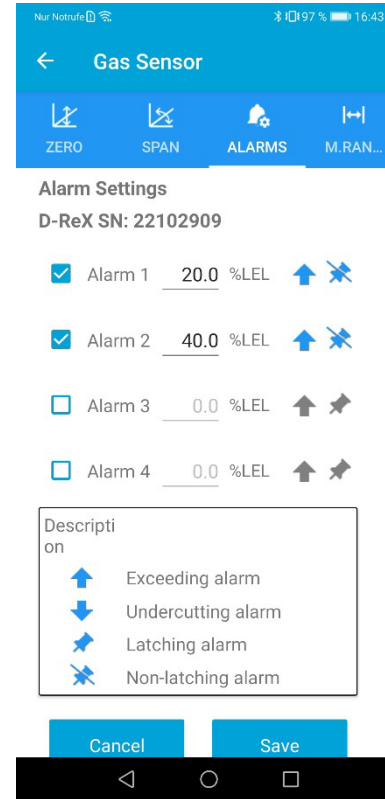
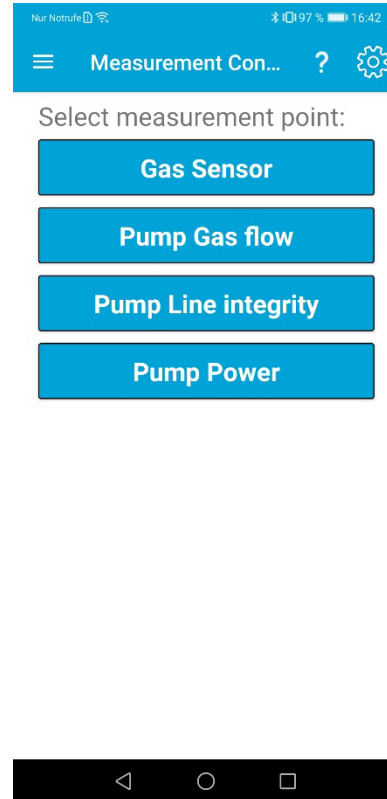
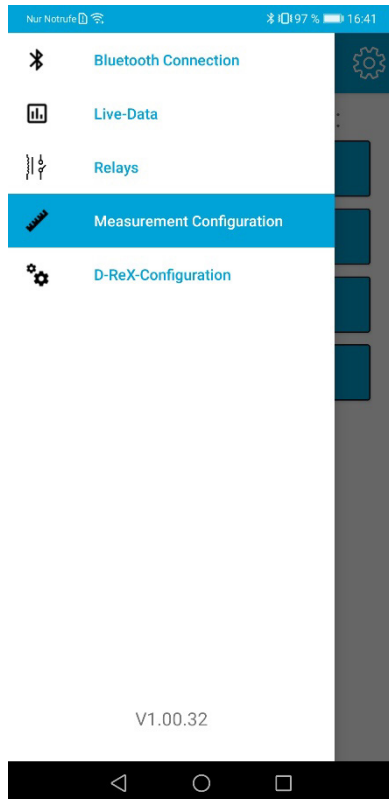
## Measurement configuration

### ➤ ZERO and SPAN



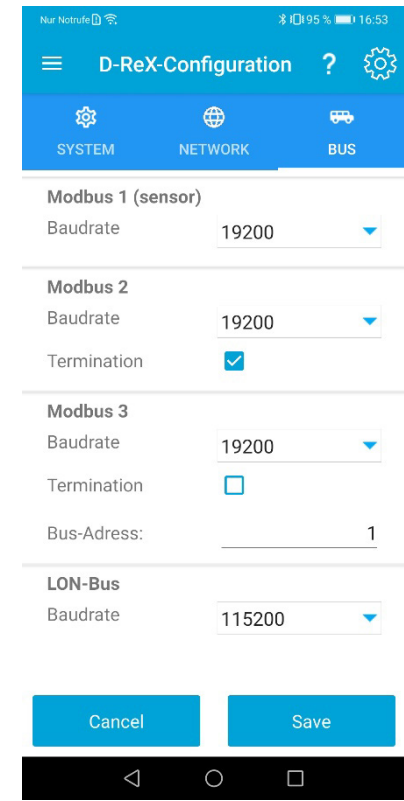
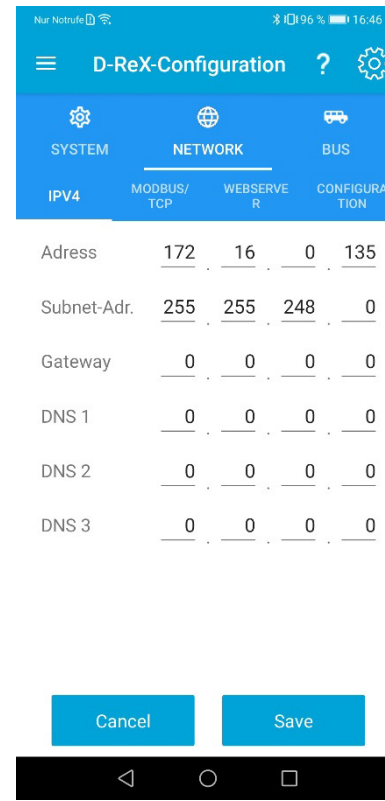
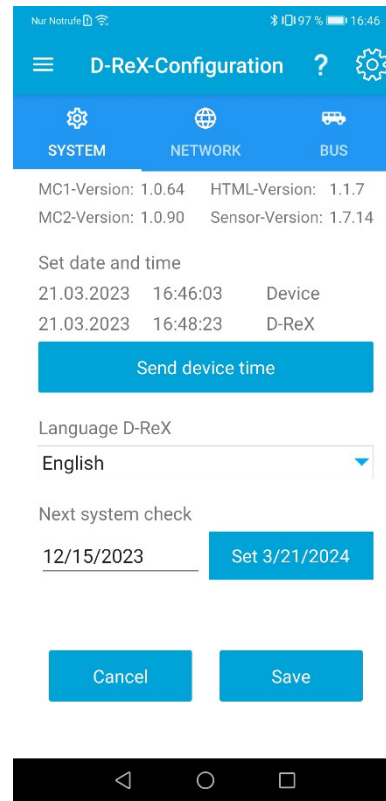
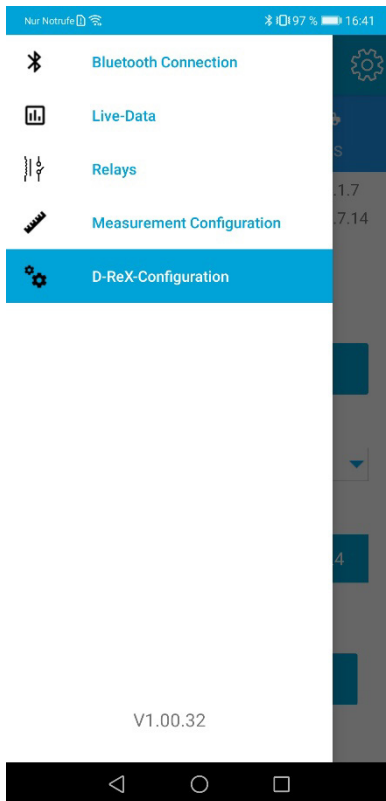
## Measurement configuration

### ➤ Alarms and measurement ranges



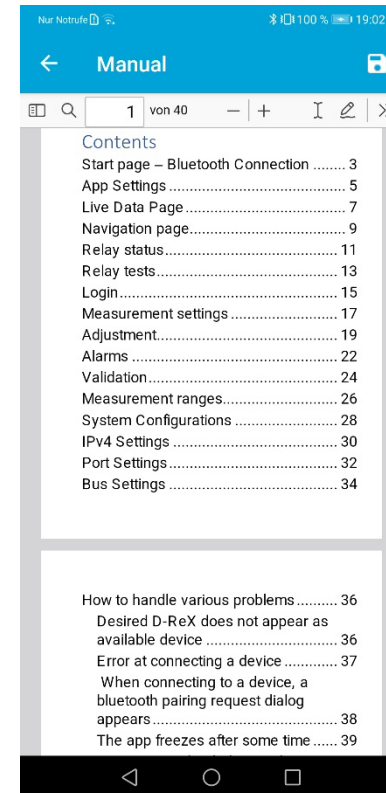
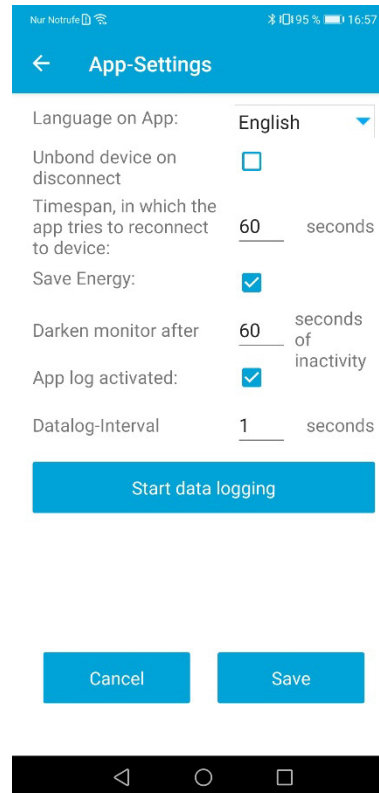
## D-ReX Configuration

➤ System, network and bus settings

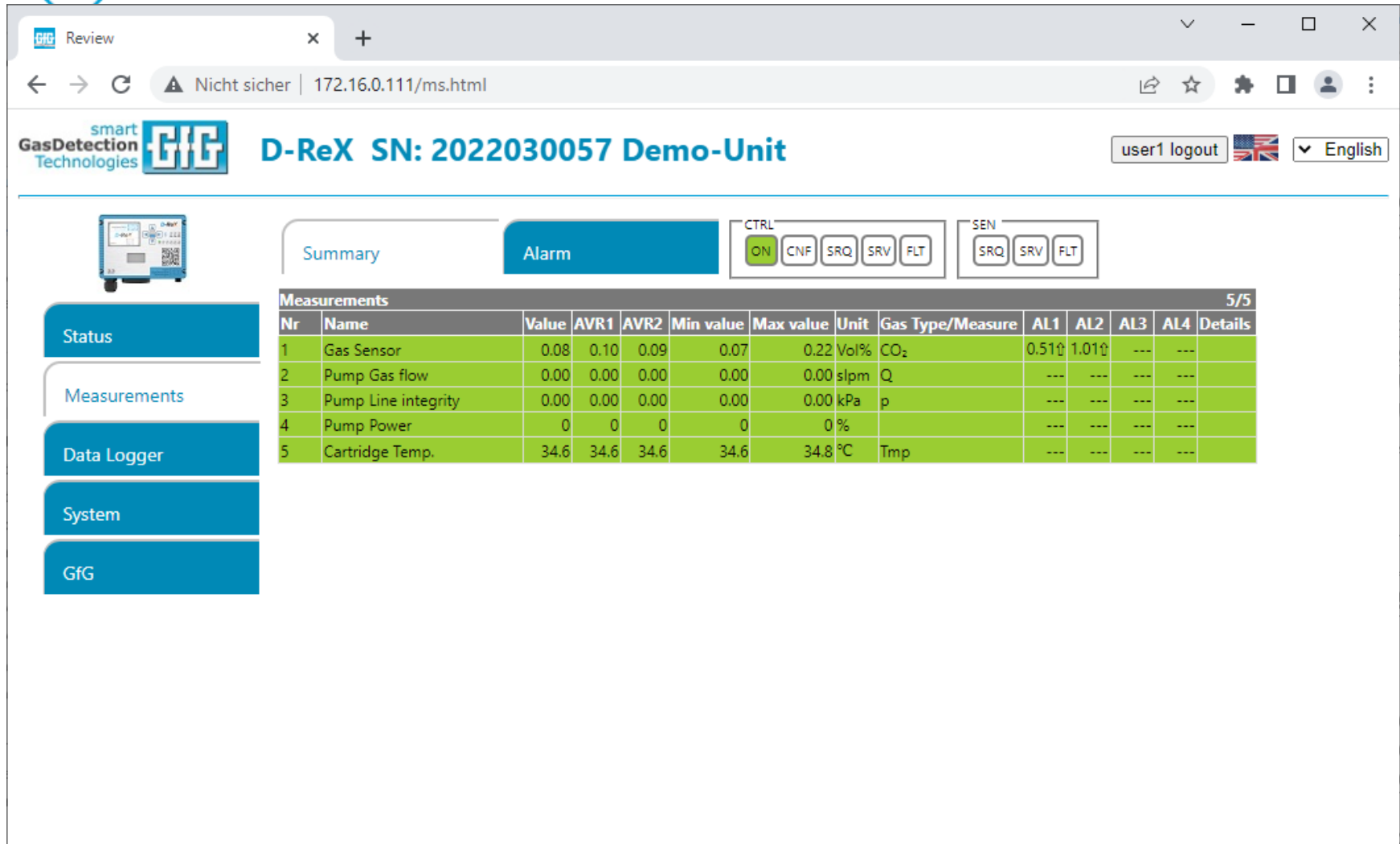


## App

### ➤ Settings and manual



# D-ReX Web interface



The screenshot shows a web browser window with the URL 172.16.0.111/ms.html. The page title is "D-ReX SN: 2022030057 Demo-Unit". The interface includes a navigation menu on the left with options: Status, Measurements, Data Logger, System, and GfG. The main content area has two tabs: "Summary" (selected) and "Alarm". Above the measurements table are control buttons for "CTRL" (ON, CNF, SRQ, SRV, FLT) and "SEN" (SRQ, SRV, FLT). The "Measurements" table displays 5 rows of data with columns for Nr, Name, Value, AVR1, AVR2, Min value, Max value, Unit, Gas Type/Measure, and four alarm levels (AL1-AL4). A "Details" column is also present.

Measurements													5/5
Nr	Name	Value	AVR1	AVR2	Min value	Max value	Unit	Gas Type/Measure	AL1	AL2	AL3	AL4	Details
1	Gas Sensor	0.08	0.10	0.09	0.07	0.22	Vol%	CO <sub>2</sub>	0.51↑	1.01↑	---	---	
2	Pump Gas flow	0.00	0.00	0.00	0.00	0.00	slpm	Q	---	---	---	---	
3	Pump Line integrity	0.00	0.00	0.00	0.00	0.00	kPa	p	---	---	---	---	
4	Pump Power	0	0	0	0	0	%		---	---	---	---	
5	Cartridge Temp.	34.6	34.6	34.6	34.6	34.8	°C	Tmp	---	---	---	---	

Event-Log x +

Nicht sicher | 172.16.0.111/dl\_event.html

smart GasDetection Technologies **GfG** D-ReX SN: 2022030057 Demo-Unit user1 logout English

- Status
- Measurements
- Data Logger
- System
- GfG

Device Log
Event Log
Security Log

Position: Top << Prev Next >> Oldest
50/871

Row	Date	Time	Source	Art	Message	Extension
0	2023-05-15	16:12	TRM	Service	Underrange AD	TRM: 1,...; total: 4
1	2023-05-15	16:12	System-1	Service	MC2 Service	
2	2023-05-15	16:12	TRM	Service	Underrange AD	TRM: 1,...; total: 4
3	2023-05-15	16:12	System-1	Service	MC2 Service	
4	2023-05-15	16:05	System-1	Service Request	Cycle error MC2	
5	2023-05-15	16:05	System-1	Disturbance	Intermediate voltage 4V5 U < 4.3V	
6	2023-05-15	16:05	System-1	Disturbance	Relay supply voltage U < 9.5V	
7	2023-05-15	16:05	System-1	Service Request	Communication failure MC2	
8	2023-05-15	16:05	System	Message	Start	
9	2023-05-15	16:03	System-1	Service Request	Cycle error MC2	
10	2023-05-15	16:03	System-1	Disturbance	Intermediate voltage 4V5 U < 4.3V	
11	2023-05-15	16:03	System-1	Disturbance	Relay supply voltage U < 9.5V	
12	2023-05-15	16:03	System-1	Service Request	Communication failure MC2	
13	2023-05-15	16:03	System	Message	Start	
14	2023-05-15	16:02	System-1	Service Request	Cycle error MC2	
15	2023-05-15	16:02	System-1	Disturbance	Intermediate voltage 4V5 U < 4.3V	
16	2023-05-15	16:02	System-1	Disturbance	Relay supply voltage U < 9.5V	
17	2023-05-15	16:02	System	Message	Start	
18	2023-05-15	15:40	TRM	Service	Underrange AD	TRM: 1,...; total: 4
19	2023-05-15	15:40	System-1	Service	MC2 Service	

Thank you for your attention

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