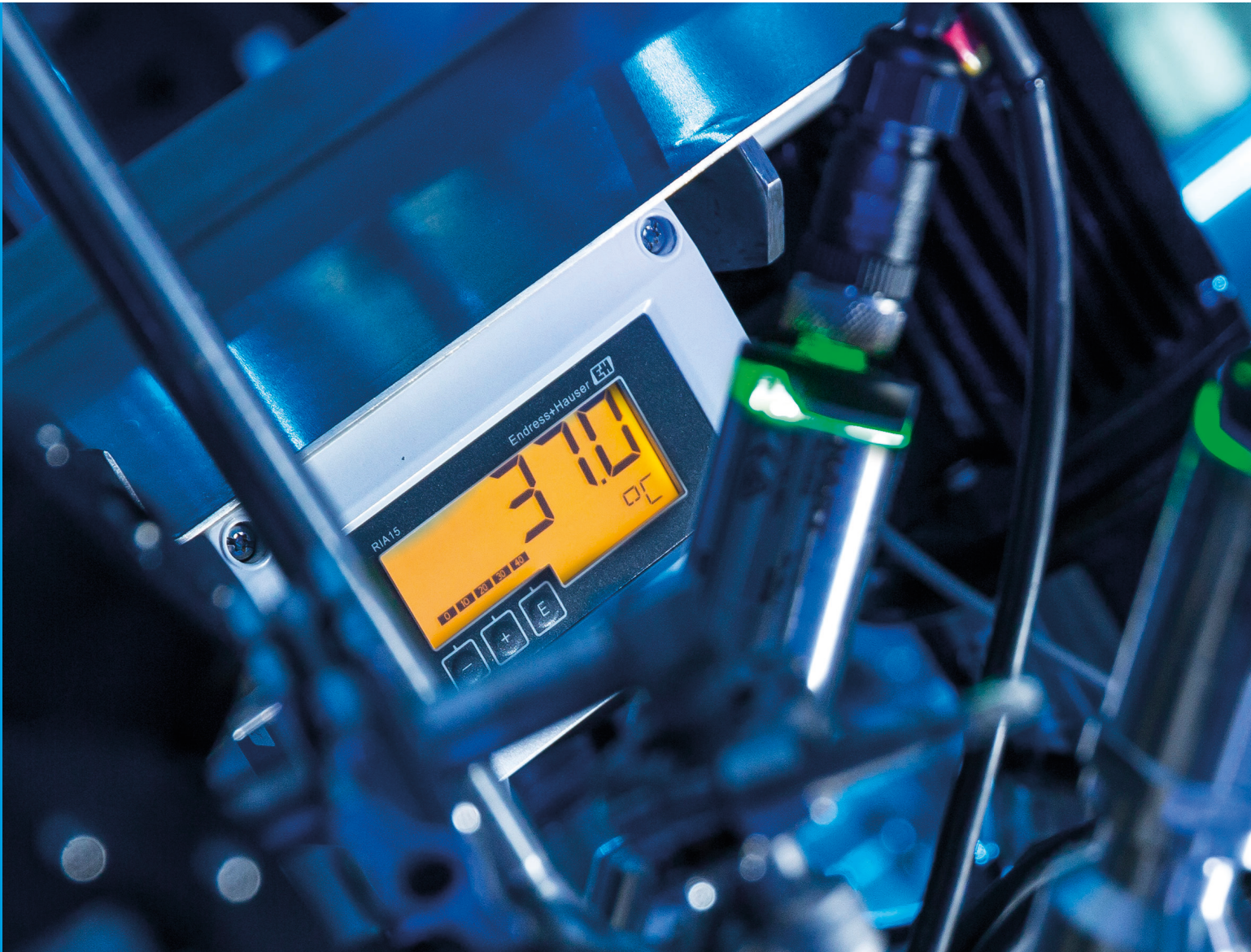


System products and data managers

Solutions to complete your measuring point



Power supplies & barriers, overvoltage protection

RN22



- Active barrier | 24 V DC**
- 1/2 channel, signal doubler
 - 4 ... 20 mA/HART®, T-connector
 - In/Out active or passive, HART® signal tapping
 - cULus, SIL 2 (SC 3), Marine (DNV)
 - ATEX/IECEX, UK, INMETRO, NEPSI, cCSAus, JPN Ex

RLN22



- NAMUR isolating amplifier | 24 V DC**
- 1/2 channel, relay output, T-connector
 - Line fault detection, wire break or short-circuit
 - SIL 2, Marine (DNV)
 - ATEX/IECEX, UKCA

RNO22



- Output isolating amplifier | 24 V DC**
- 4 ... 20 mA/HART®
 - Line fault detection
 - SIL 2 (SC 3), Marine (DNV)
 - ATEX/IECEX, UKCA

RNB22



- System power supply | 100-250 V AC/24 V DC 2.5 A**
- Static/dynamic boost 3.125 A / 5 A
 - Parallel operation for redundancy
 - Preventive function monitoring
 - Power supply for RN Series or 4 W sensors
 - UKCA

RNF22



- Power supply / error signal doubler module**
- Single or redundant power supply in T-connector up to 3.75 A, with fuse
 - Error message in case of power failure
 - Group error message for NAMUR devices
 - ATEX/IECEX, UKCA, Marine (DNV)

RN42



- Active barrier | 24 to 230V AC/DC**
- 1 channel, 4 ... 20 mA/HART®
 - In/Out active or passive, HART® sockets
 - Optional 180° rotated installation
 - cULus, SIL 2 (SC 3), Marine (DNV)
 - ATEX/IECEX, UKCA, NEPSI, CSA, JPN Ex

RLN42



- NAMUR isolating amplifier | 24 to 230 V AC/DC**
- 2 channel, relay output
 - Line fault detection, wire break or short-circuit
 - SIL 2, Marine (DNV)
 - ATEX/IECEX, UKCA

RB223



- Passive barrier**
- 1/2 channel, loop-powered
 - 4 ... 20 mA; input or output
 - HART® sockets
 - SIL 3
 - ATEX, FM, CSA

HAW562



- Surge arresters**
- DIN rail
 - 4 ... 20 mA, HART®, PFM, PROFIBUS PA/DP, FOUNDATION Fieldbus or RS-485, Modbus, 10-55 V; 90-230 V
 - SIL 2; ATEX/IECEX, CSA

HAW569



- Surge arresters**
- For installation in field device
 - 4 ... 20 mA, HART®, PFM, PROFIBUS PA, FOUNDATION Fieldbus, 0-66 V or 80-230 V
 - Ex ia/d; ATEX/IECEX, CSA

Process indicator & control units

RIA15



- Loop-powered**
- 4 ... 20 mA or HART®
 - Versions for level, analysis
 - Field housing or panel
 - Ex ia
 - Aluminum or polymer (PC)
 - SIL, Marine (DNV)
 - ATEX, FM, CSA, IECEX, cULus, UKCA, JPN Ex, NEPSI

RIA14



- Loop-powered**
- 4 ... 20 mA, HART® transparent
 - Field housing, aluminum or 316L
 - Ex d (flameproof)
 - cURus, Marine (DNV)
 - ATEX, FM, CSA, IECEX, EAC, NEPSI, UKCA, TIIS

RIA16



- Loop-powered**
- 4 ... 20 mA, HART® transparent
 - Field housing, aluminum or polymer (PC)
 - Ex ia
 - cURus, Marine (DNV)
 - ATEX, FM, CSA, IECEX, EAC, NEPSI, UKCA

RID14



- Fieldbus indicator**
- FOUNDATION Fieldbus or PROFIBUS PA, 8 channels
 - Field housing, aluminum or stainless steel (316L)
 - Ex d (flameproof)
 - ATEX, CSA, FM, IECEX

RID16



- Fieldbus indicator**
- FOUNDATION Fieldbus or PROFIBUS PA, 8 channels
 - Field housing, aluminum or polymer (PC)
 - Ex ia
 - ATEX, CSA, FM, IECEX

RMA42



- Process indicator with control unit**
- 1/2 analog, temperature inputs
 - 1/2 analog, 0/2 relay outputs
 - Multiplication, average, differential functions
 - Linearization, limit value, overflow prevention
 - cURus, SIL 2, Marine (DNV)
 - ATEX, FM, CSA, NEPSI, UKCA

RIA45



- Process indicator with control unit**
- 1/2 analog, temperature inputs
 - 1/2 analog, 0/2 relay outputs
 - Multiplication, average, differential functions
 - Linearization, limit value, overflow prev.
 - cURus, SIL 2, Marine (DNV)
 - ATEX, FM, CSA, UKCA

RIA46



- Process indicator with control unit**
- 1/2 analog, temperature inputs
 - 1/2 analog, 0/2 relay outputs
 - Multiplication, average, differential functions
 - Linearization, limit value, overflow prev.
 - cURus, SIL 2
 - ATEX, FM, CSA, UKCA

RIA452



- Process indicator**
- Alternating pump control
 - Linearization, integration
 - Limit function
 - 1 analog input, 4/8 relay outputs
 - FM, CSA, UKCA

Application & energy managers

RH33



BTU meter for custody transfer

- Water, glycol, other fluids
- Bidirectional measurement
- IAPWS-97 calculation standard
- Web server, USB, TC/IP, Modbus, M-Bus
- MID, OIML R75, CSA GP, PTB, UKCA

RS33



Steam calculator; mass and energy

- Saturated and superheated steam
- Bidirectional measurement
- IAPWS-97 calculation standard
- Web server, USB, TCP/IP, Modbus, M-Bus
- CSA GP, UKCA

RA33

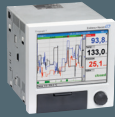


Batch controller

- Batching and dosing
- Automatic after-run correction
- ASTM D1250-04
- USB, TCP/IP, Modbus TCP, RTU, RS-232
- CSA GP, NTEP

Data managers & data loggers

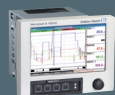
RSG35



Graphic data manager

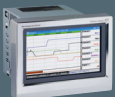
- Up to 12 universal inputs
- 30 limit values/6 relays
- 4 math channels
- USB, Ethernet, RS-232/RS-485
- Modbus RTU/TCP slave
- UKCA

RSG45



Advanced data manager

- Front panel; stainless steel, DIN rail
- Math channels, telealarm
- Batch controller, energy computer
- W_WW application packages
- iTHERM TrustSens calibration monitoring



- Up to 20 universal channels (analog/HART®)
- Up to 40 channels with fieldbus
- 6/14 DI; 60 limit values, 12 relay outputs
- RS-232/RS-485; PROFINET I/O, EtherNet IP
- Modbus RTU/TCP Master/Slave, USB
- ATEX, UKCA



FDM

MS20/MS21



Analysis software

- Compliant with FDA 21 CFR Part 11
- Data integrity in accordance with ALCOA+
- Supports SQL databases

Connectivity

SWA70



WirelessHART® adapter

- Fast upgrade of HART® devices to WirelessHART® technology
- Wireless transmission of 4 ... 20 mA/HART® signals
- ATEX, CSA, IEC Ex, JPN Ex, UKCA

SWG50



WirelessHART® Fieldgate

- WirelessHART® network management with up to 100 wireless field devices
- Modbus TCP and HART-IP
- Compact housing IP20 (DIN-rail)
- Netilion compatible with FieldEdge SGC500
- ATEX, IECEx, cCSAus

SMT70



Tablet PC for device configuration

- HART®, PROFIBUS DP/PA, FOUNDATION Fieldbus, Modbus protocols
- Connection to Netilion (Endress+Hauser IIoT ecosystem)
- ATEX, NEC/CEC, IECEx, NEPSI, JPN, INMETRO

SMT77



Tablet PC for device configuration in Ex Zone 1

- HART®, PROFIBUS DP/PA, FOUNDATION Fieldbus, Modbus protocols
- Connection to Netilion (Endress+Hauser IIoT ecosystem)
- ATEX, IECEx, UL, NEC/CEC

SMT50



Tablet PC for Field Xpert

- WLAN + WWAN LTE+GPS for EU / US
- Application in non-Ex areas

SFG250



Ethernet HART® gateway

- For remote monitoring and configuration
- Integrated web server
- UL

SFG500



Ethernet/PROFIBUS gateway

- Ethernet/PROFIBUS DP gateway with integrated web server
- Monitoring of PROFIBUS and HART® device status
- Fieldgate modules SFM500: display of process values and diagnostics

SGC500



FieldEdge

- PROFIBUS, HART®, WirelessHART® in conjunction with Fieldgates
- Connection to Netilion (Endress+Hauser IIoT ecosystem)

SGC200



FieldEdge


- Bluetooth®/LTE
- API (Application Programming Interface)
- Connection to Netilion (Endress+Hauser IIoT ecosystem)

SWA50



BT/Wireless HART® adapter (FieldPort)

- Converts HART® signal of field device to Bluetooth® or Wireless HART® signal
- 2- and 4-wire HART® field devices
- ATEX, IECEx

 **Further information**



Everything at a glance
Find out everything you need
to know about system products
and data managers

www.endress.com/systemproducts

 **Downloads**



Download technical documentaion,
brochures, software updates, certificates
and many other documents!

www.endress.com/download

Endress+Hauser Temperature+System Products

Endress+Hauser Wetzler GmbH + Co. KG
Obere Wank 1
D-87484 Nesselwang

Tel.: +49 8361 308-0
Fax: +49 8361 308-110

www.ehts.endress.com