System products and data managers
Solutions to complete
your measuring point

Endress+Hauser

People for Process Automation
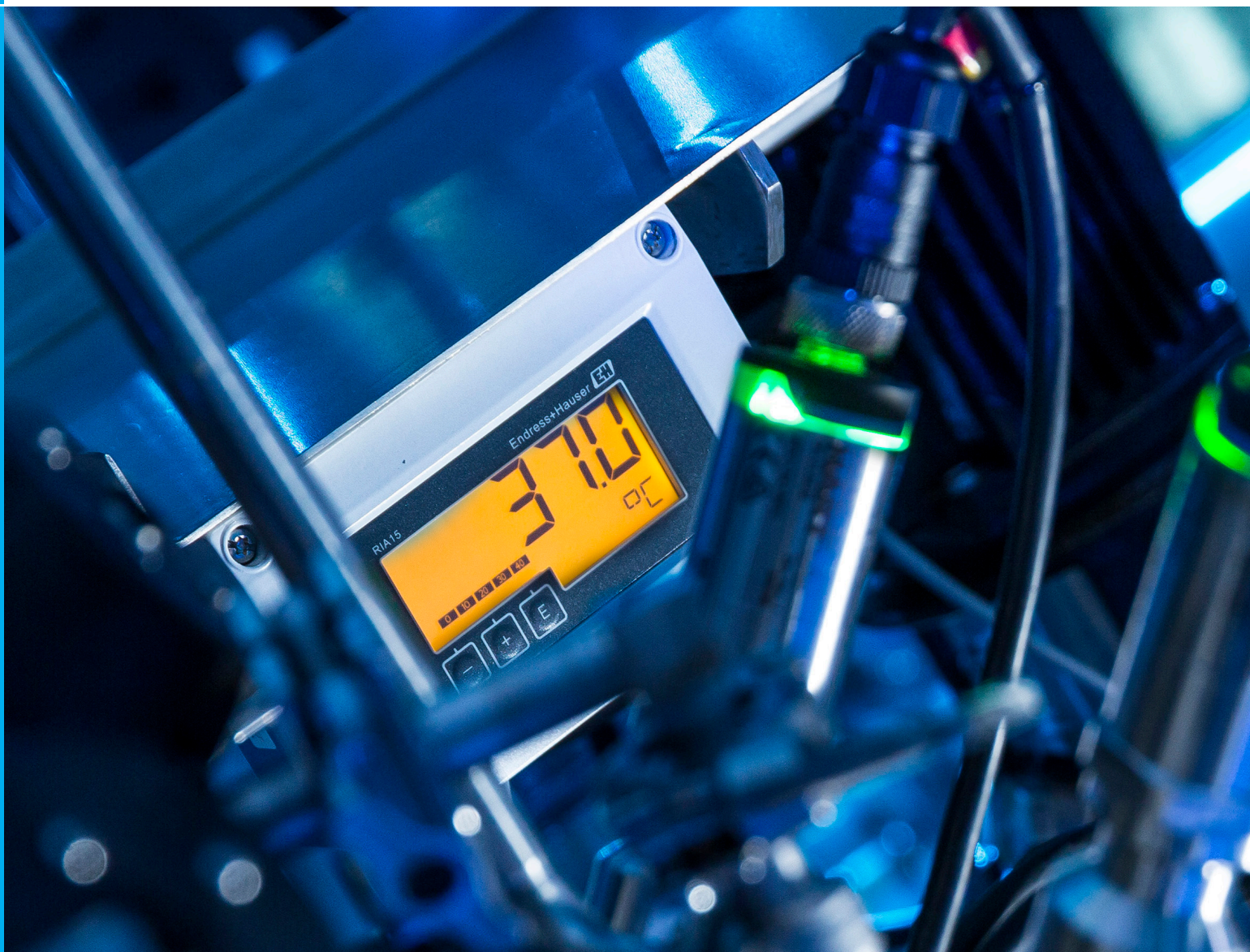
Power supplies & barriers, overvoltage protection

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, KC 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, INMETRO, NEPSI, CSA, JPN Ex, KC 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 2, Marine (DNV)
- ATEX, FM, CSA, IECEx, cULus, UKCA, JPN Ex, NEPSI, EAC Ex

RIA14

Loop-powered
- 4 ... 20 mA, HART® transparent
- Field housing, aluminum or 316L
- Ex d (flameproof)
- cURus, Marine (DNV)
- ATEX, FM, CSA, IECEx, EAC Ex, 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 Ex, 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, overfill 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, overfill 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, overfill prev.
- cURus, SIL 2
- ATEX, FM, CSA, UKCA

FMA90

Control unit for W/WW applications
- Level linearization, open channel flow, pump & rake control
- Field, panel and DIN rail housing
- 3.5" graphic touch display
- 2 x 4 to 20 mA / HART inputs
- Trend view & event log with real time stamp
- Ethernet, WLAN, webserver

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
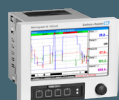- CSA GP, NTEP

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, EtherNet IP
- Modbus RTU/TCPMaster/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

SMT70B

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

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/PROFINET®, 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)
- PROFINET, Ethernet/IP, Modbus TCP

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

Endress+Hauser EH

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