

# Fit for purpose. Built for value.

Your Fundamental selection:  
Find it. Order it. Use it.

Simplify your operations

Key benefits

Portfolio at a glance

Easy portfolio access



# Simplify your operations. Focus on what matters.



[i Discover FLEX segmentation](#)

Industrial processes require measuring devices that are easy to select, quick to implement and reliable in operation. The Endress+Hauser Fundamental portfolio offers standardized, fit-for-purpose instrumentation for basic applications without unnecessary extras. This reduces engineering effort, speeds up selection, ordering and commissioning, and supports reliable day-to-day operation. Intuitive operation and guided commissioning enable fast setup and immediate use.

Endress+Hauser IO-Link devices simplify installation, device replacement and maintenance throughout the lifecycle. Standardized parameter storage enables fast and easy device replacement, while access to diagnostic information supports efficient troubleshooting and increased operational reliability. They also integrate seamlessly into TURCK SIDI engineering environments, simplifying integration, commissioning and maintenance in PROFINET architectures.

In addition to IO-Link, selected devices within the Fundamentals portfolio are also available with communication protocols such as 4-20 mA and HART, offering greater flexibility to meet a wide range of automation and integration requirements.



# Key benefits

Achieving efficient operations starts with the right foundation. The Fundamental portfolio focuses on what truly matters in everyday industrial environments: simplicity, availability, reliability and digitalization. Designed to deliver consistent performance without unnecessary complexity, the Fundamental products help you streamline processes, reduce effort and maintain full control of your operations.



## Only what you need

Reduce complexity and save time by focusing on essential functionality. The solutions from Endress+Hauser are designed to deliver exactly what your application requires. No more, no less.

- Quick and easy product selection
- No feature overload
- Fast setup and intuitive operation



## Available when you need it

Ensure continuity in your operations with fast access to products and seamless ordering processes. When time matters, availability makes the difference.

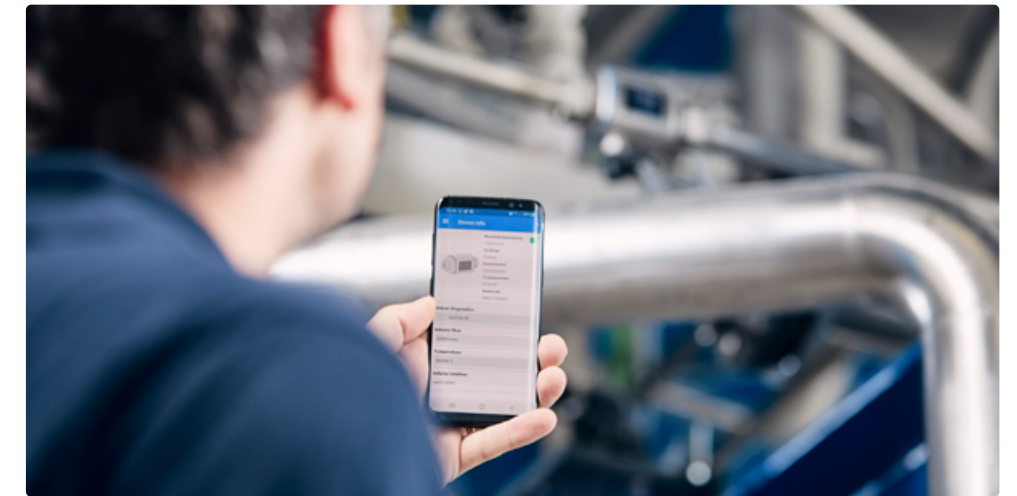
- Short delivery times
- Quick replacement in critical situations
- Direct access via a „My Endress+Hauser“ account



## Reliability when it matters

Operate with peace of mind thanks to reliable quality and comprehensive support.

- Designed for continuous operation with stable and reliable performance
- Extended warranty coverage with easy replacement handling
- Trusted partner in industrial environments



## Digital-ready when you are

Step into digitalization at your own pace, with solutions that integrate seamlessly into your existing environment.

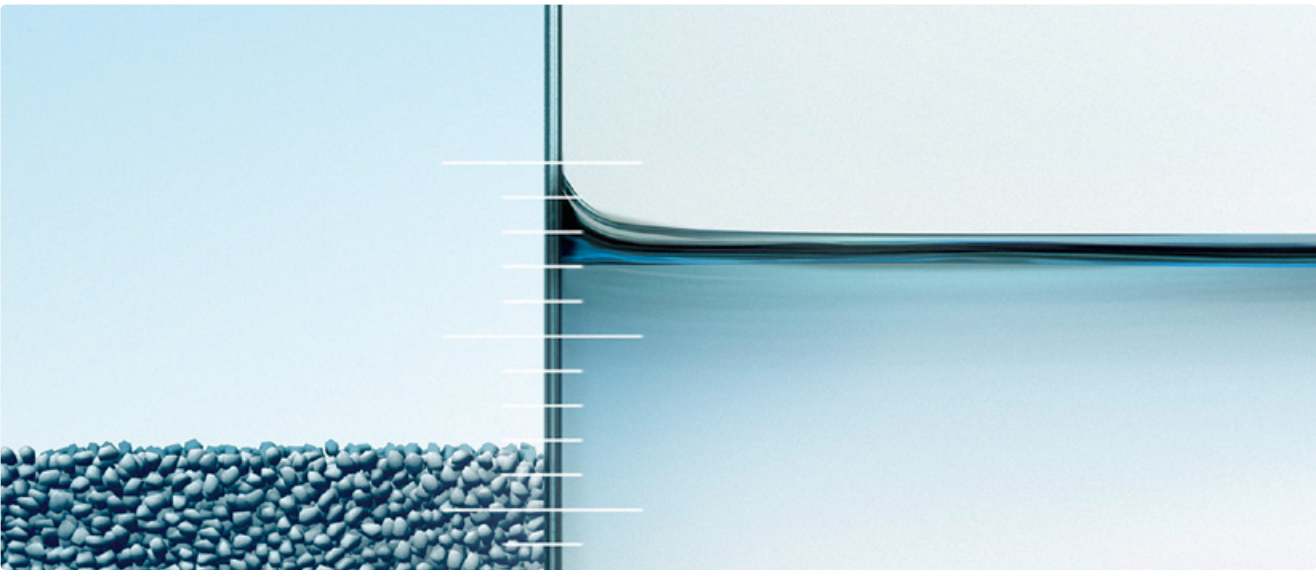
- Fast commissioning and setup
- Remote parameterization, operation and diagnostics
- Easy system integration via IO-Link

# A portfolio built for everyday performance

The Fundamental portfolio covers essential measurement needs across industries: Designed to deliver efficiency, reliability and simplicity in every application.

From level, pressure and temperature measurement to system products, liquid analysis and flow measurement, every solution is engineered to support stable processes and consistent results without unnecessary complexity.

 [Discover the whole fundamental product selection](#)



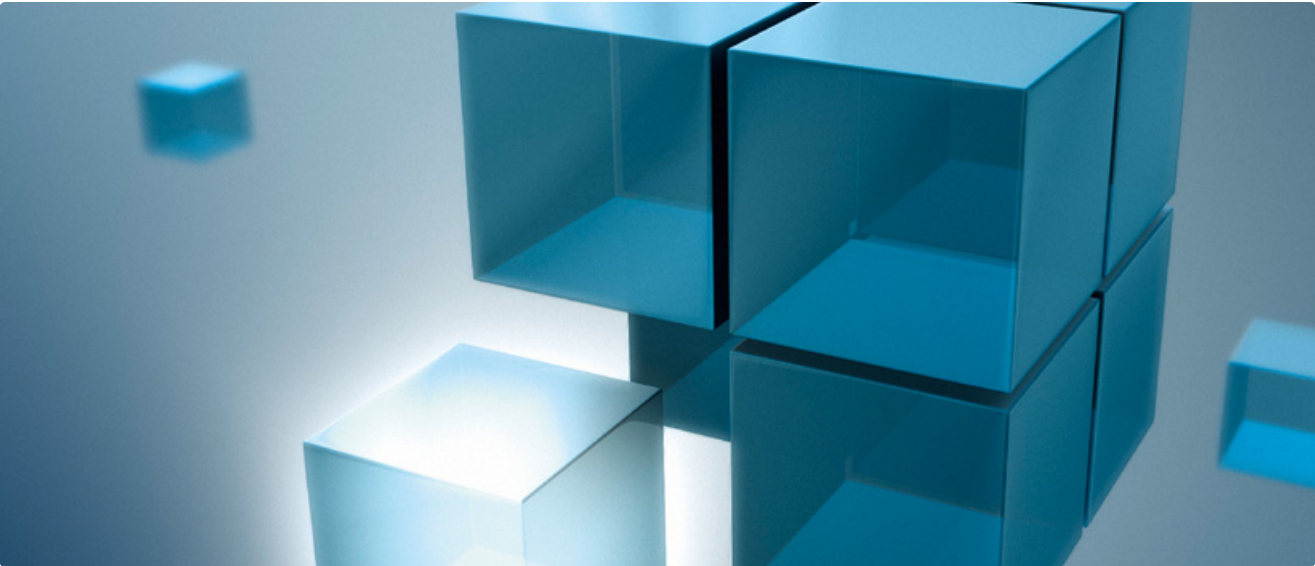
Level measurement



Pressure measurement



Temperature measurement



System products



Liquid analysis



Flow measurement

# Level

Fit-for-purpose level measurement devices offer simple operation, reliable performance and safe process control.

Click on a product to learn more.

Level measurement

Pressure measurement

Temperature measurement

System products

Liquid analysis

Flow measurement

## Micropilot FMR10B

80 GHz radar sensor for basic level measurement applications in liquids and solids



- Fast and easy commissioning thanks to guided setup sequences (wizards)
- Simple and reliable wireless access via encrypted Bluetooth connectivity and SmartBlue App
- Easy device identification with “It’s me” function (LED flashing) and status indication
- Simple device selection thanks to clear segmentation and easy configuration

## Liquiphant FTL31 Liquiphant FTL33

Compact point level switch for liquids in process and hygienic applications



- Reliable switching independent of media properties
- True plug & play operation with no calibration, adjustment, tools, or expertise required
- Robust 316L design unaffected by build-up, flow, turbulence or air bubbles
- Flexible integration with selectable outputs for example IO-Link for easy setup and cost reduction



## Waterpilot FMX11 Waterpilot FMX21



## Liquipoint FTW23



## Soliswitch FTE20



## Soliphant FTM20 Soliphant FTM21



## Liquipoint FTW31 Liquipoint FTW32



## Liquifloat FTS20



# Pressure

Pressure instruments offer intuitive operation, reliable measurement and efficient plant operation.

Click on a product to learn more.

Level measurement

Pressure measurement

Temperature measurement

System products

Liquid analysis

Flow measurement

## Cerabar PMC21

Absolute and gauge pressure transducer with robust oil-free ceramic measuring cell for gases and liquids, including vacuum and abrasive applications



- Reliable operation in harsh environments with a robust housing design and IP68 protection
- Proven 0.3% accuracy ensures consistent monitoring and reliable operation with minimal downtime
- Fast installation and easy integration thanks to compact design, flexible measuring ranges and IO-Link
- One device for multiple applications, supported by certifications for hazardous areas and marine applications

## Cerabar PMP23

Absolute and gauge pressure transducer with fully welded metallic measuring cell for hygienic applications



- High process safety and long-term durability with fully welded 316L design
- Proven 0.3% accuracy ensures consistent monitoring and reliable operation with minimal downtime
- Fast installation and easy integration thanks to compact design, flexible measuring ranges and IO-Link
- Flexible use in hygienic applications with IP69 protection and CIP/SIP capability, supported by documented compliance and full traceability



## Cerabar PMP21



## Cerabar PMC11



## Cerabar PMP11



## Ceraphant PTP33B



## Ceraphant PTP31B



## Ceraphant PTC31B



# Temperature

Thermometers and temperature transmitters offer intuitive operation, reliable measurement and long-term stability for efficient and safe process operation.

Click on a product to learn more.

Level measurement

Pressure measurement

Temperature measurement

System products

Liquid analysis

Flow measurement

## iTHERM CompactLine TM311

Metric/imperial RTD 4-20 mA/IO-Link compact thermometer for industrial and hygienic applications



- Fast and easy installation thanks to compact design and M12 connection with IP69 protection
- Flexible integration with Pt100 sensor, 4-wire connection or self-detecting universal output (4–20 mA / IO-Link)
- Reliable measurement with short response times and high accuracy, even with short immersion lengths
- Enhanced accuracy thanks to precise sensor-transmitter matching



## iTHERM ModuLine TM401 iTHERM ModuLine TM402

Fundamental metric/imperial RTD direct contact thermometer for hygienic applications



- Cost-efficient solution with excellent price-performance ratio and fast delivery times
- Simple and reliable use from product selection to installation and maintenance
- High compliance for hygienic applications with certifications according to 3-A, EHEDG, ASME BPE, FDA and TSE
- Flexible installation with a wide range of hygienic process connections



## iTHERM ModuLine TM101



## iTHERM ModuLine TM121



## iTEMP TMT31



## iTEMP TMT36



## Thermophant T TTR31 / TTR35



## iTHERM ModuLine TST434B



# System products

System products offer seamless integration, reliable data handling and efficient operation for complete and optimized measuring points.

Click on a product to learn more.

- Level measurement
- Pressure measurement
- Temperature measurement
- System products
- Liquid analysis
- Flow measurement

## RN42 active barrier

Active barrier, 1 channel for 4–20 mA, HART transparent with 24 to 230 V AC/DC as well as active/passive input and output



- Flexible and reliable power supply with wide input range from 19.2 to 253 V AC/DC
- Fast and easy installation thanks to plug-in terminals for quick wiring
- Enhanced safety for critical up to SIL 2 (SC3) compliance
- Flexible use in hazardous environments with suitability for installation in Ex Zone 2

## RIA15 process indicator

Loop-powered Ex ia process indicator as field or control panel device for 4–20 mA signals or HART protocol



- Simple and independent operation with loop-powered design requiring no external power supply
- Reliable signal processing with low voltage drop and support for 4–20 mA and HART communication
- Clear and easy visualization with 5-digit display, bar graph and backlight
- Fast and intuitive configuration with simple 3-key operation

## RN22 active barrier



## HAW569 surge protective device



## HAW562 surge protective devices



## FieldPort SWA50



## RIA14 process indicator



## RIA16 process indicator



# Liquid analysis

Liquid analysis instruments offer reliable measurement and efficient control and monitoring of critical parameters for safe and optimized processes.

Click on a product to learn more.

Level measurement

Pressure measurement

Temperature measurement

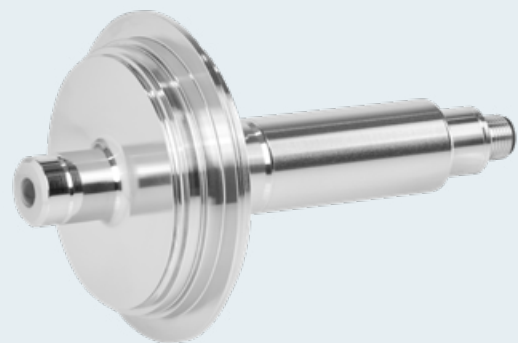
System products

Liquid analysis

Flow measurement

## CUD33 compact turbidity device

Optical phase separation device for maximized product yield and optimized cleaning processes in Food & Beverage applications



- Reliable measurement thanks to unique ball lens design preventing interference from air bubbles
- Maintenance-free operation thanks to robust design requiring only annual ball lens cleaning independent of CIP cycles and no O-ring changes needed
- Space-saving installation with compact design for use even in the tightest areas
- Fast and easy commissioning with flexible process connections and easy integration to your PLC (no configuration required)

## Liquiline CM14



## Liquiline Compact CM72



# Flow

Flowmeters offer reliable measurement, intuitive operation and efficient control for optimized processes.

Click on a product to learn more.

- Level measurement
- Pressure measurement
- Temperature measurement
- System products
- Liquid analysis
- Flow measurement

## Picomag Inline

Electromagnetic flowmeter for applications in secondary circuits with conductive liquids



- Multivariable measurement (flow, conductivity, temperature) available in four nominal diameters: DN 15 (½”), DN 20 (¾”), DN 25 (1”), DN 50 (2”)
- -deal for compact installations: no inlet or outlet runs required
- Precise flow measurement with a maximum measurement error of ±0.8% o.r.
- For conductive liquids at temperatures up to 70 °C (158 °F), short-term even up to 85 °C (185 °F)



## Picomag Insertion

Coming soon

Electromagnetic flowmeter designed for utilities: flow and switch monitoring up to DN 1000 (40”)



- Multivariable measurement (flow, conductivity, temperature) for larger pipes up to DN 1000 (40”)
- Fast and simple installation without long process interruption
- Easy interpretation of current measured values thanks to Teach function
- For conductive liquids at temperatures up to 85 °C (185 °F), short-term even up to 95 °C (203 °F)



## Flowphant T DTT31 Flowphant T DTT35

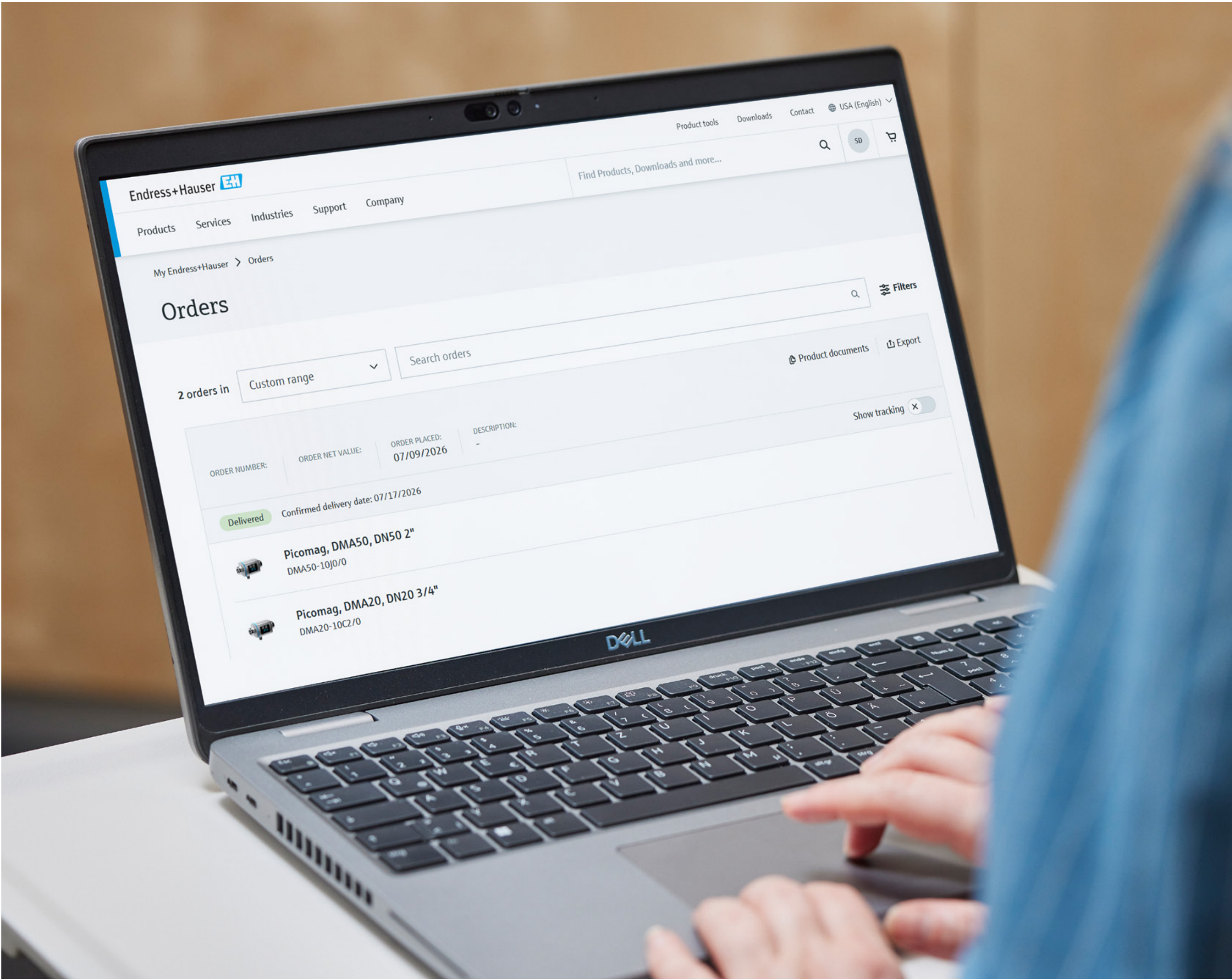


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- Create quotes and place orders
- Track orders and access documentation
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