

# SMART FIELD INSTRUMENTS

MEASURE. CONNECT. CONTROL.

## PRECISION IN EVERY PROCESS

### Pressure & temperature

Smart transmitters for process monitoring.

### Flow & density

DP primary elements and online density measurement.

### Field configuration

HART tools for setup, diagnostics and maintenance.



### HART connectivity

Digital access to compatible smart transmitters.

### PLC / SCADA

Integrate measurement, indication and control.

### IIoT-ready integration

Remote visibility through compatible gateways.

Pressure / Temperature / DP Flow / Density / Level / HART

# Process measurement instruments

## PROEX 5000PT

Gauge / absolute pressure



Types: gauge, absolute and vacuum  
Accuracy: 0.1%  
Output: 4-20 mA + HART  
Setup: keypad; push-button zero  
Update: 90 ms

Digital indication and direct field configuration.

## PROEX 5100PT

Piezoresistive pressure transmitter



Range: -100 kPa to 100 MPa selections  
Grades: 0.5 / 0.2 / 0.1%  
Output: mA / voltage / RS485 options  
Power: 12-36 VDC  
Operating: -10 to +70 °C

Stainless-steel construction; connection options.

## PROEX 5000XP

Smart pressure / differential pressure



Types: DP, gauge, absolute  
Accuracy:  $\pm 0.1\%$  span  
Output: 4-20 mA + HART  
Supply: 9-32 / 36 VDC by version  
Protection: IP65 standard

Programmable LCD; configurable sensor ranges.

## PROEX-5000TT

Temperature transmitter



Inputs: RTD / thermocouple  
Accuracy: 0.1 °C RTD; 0.5 °C selected TC  
Output: 4-20 mA; HART option  
Power: 10-32 VDC  
Ambient: -20 to +70 °C

Pt100 and TC selections; display / thermowell options.

## PROLEVEL 2000FT

Float & tape level gauge



Range: 1.7 / 6 m selections; custom  
Accuracy:  $\pm 5$  mm  
Float / tape: SS316  
Temperature: up to +75 °C  
Mounting: 25 NB / ANSI Class 150

Mechanical indication for oil, water and chemicals.

## APPLICATION-LED SELECTION

Match the sensor range, wetted materials, connection, output and process conditions to the application.

Smart transmitter interfaces support local indication, loop monitoring and integration with PLC, DCS or SCADA.

Hazardous-area and special-temperature versions require configuration-specific confirmation.

Ranges and ratings are version-dependent. Confirm full-scale range, turndown, process limits and selected options.

# Engineered flow measurement

## PROEX 5000DPOF

Smart DP orifice assembly



Assembly: orifice, DP TX, manifold  
DP TX accuracy: up to  $\pm 0.05\%$  span  
Output: 4-20 mA + HART  
Power: 10.5-42 VDC  
Protection: IP67 / NEMA 4X

SS316/316L wetted parts; engineered bore selection.

## PROEX 5000VF

Venturi with DP transmitter



Size: 15-1,200 NB and above  
Accuracy:  $\pm 0.5-1\%$  reading  
Turndown: up to 10:1  
Output: 4-20 mA; HART option  
Temperature: -40 to +450 °C\*

Low permanent pressure loss; no moving parts.

## PROEX 5001

Insertion averaging-pitot / Annubar



Size: DN80-DN5000  
Pressure: selected ratings to 6.3 MPa  
Grades:  $\pm 1$  / 1.5 / 2.5 / 5%  
Service: liquid, gas and steam  
Assembly: probe + DP instruments

Low-loss insertion primary element for large pipes.

## PROEX-5001

Pitot insertion flow sensor



Pipe: 25-600 NB  
Accuracy: 1%  
Pressure: up to 16 barg  
Output: analog / pulse / RS485  
Power: 18-30 VDC; IP65

Flow, consumption, pressure and temperature outputs.

## PROEX 5000DMT

Online liquid density meter



Range: 0-2 / 0-3 g/cm<sup>3</sup>  
Accuracy: 0.001 g/cm<sup>3</sup>  
Resolution: 0.0005 g/cm<sup>3</sup>  
Output: 4-20 mA + HART  
Power: 16-30 VDC

Continuous density and temperature indication.

## MEASUREMENT THAT FITS

DP flow

Flow is calculated from differential pressure, fluid properties and primary-element geometry.

Online density

Continuous measurements support process consistency and concentration-related monitoring.

Confirm straight lengths, impulse lines and compensation requirements.

\*Selected construction. Orifice DP-transmitter accuracy is not overall flow accuracy. Pitot velocity range/unit needs confirmation.

# Field configuration & diagnostics



## PROEX-HART375

Universal field HART communicator

Range setup, loop testing, process-variable monitoring and device trim support. Configuration and maintenance of compatible HART transmitters.



## PROEX-HART375EH7

HART 7 field communicator

Point-to-point and multidrop communication with compatible devices. USB HART modem option connects transmitters to supported PC software.



## PROEX-475 HART

Universal field communicator

HART 5 / 6 / 7; configuration, diagnostics and maintenance. Touchscreen and keypad; Fieldbus / wireless options by supplied configuration.

Device-description compatibility, protocol options and hazardous-area approvals must be confirmed for the supplied unit.

**“From selecting the right instrument to keeping your process running, LABTECH stands beside you.”**

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## CALIBRATION & PERFORMANCE

Each measuring instrument is supplied with a factory calibration certificate; functional verification applies to communicators and accessories. Published accuracy relates to defined test conditions and the selected configuration. Actual performance depends on site conditions, installation, media and process characteristics, and proper commissioning and maintenance. Confirm applicable standards and ordered options with the offer.

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