Proline Promass 300 / 500 New Product Offerings

New improvements for the 300 / 500 Series for the oil and gas industry

- Improved compact housing with backlit display, touch controls and WLAN access
- Reduced complexity and variety – dual compartment housing with up to 3 freely configurable I/Os on the 300 transmitter and 4 configurable I/Os on the 500 transmitter
- Integrated verification through Heartbeat Technology
- Plain-text diagnostic messages and clearly documented verification results whilst devices remain connected, even where sensors are difficult to access
- Significantly reduced commissioning time and reduced reliance on "experts" – easy system integration
- Risk-free integration through extended host testing and certification
- Remote display available

Q 300

Sensor Features

Q Sensor

- Highest measurement performance for custody transfer, mass, volume flow and density in challenging applications
- Mass and volume flow: measured error ±0.05 % (PremiumCal)
- Inline density accuracy with measured error ±0.0002 g/cc
- Highest turndown (50:1) due to lowest zero point instability
- Optimized performance for liquids with entrained gas with MFT (Multi-Frequency Technology)
- Reduced pressure drop and increased throughput per line size
- Medium temperature: -196 to +205 °C (-320 to +401°F)
- Nominal diameter: DN 25 to 100 (1 to 4")

F Sensor

- Mass and volume flow: measured error ±0.05 % (PremiumCal)
- Suitable for medium temperatures up to -196 °C (-320 °F)
- Nominal diameter: DN 8 to 250 (3⁄8 to 10")
- Low-profile sensor design fits easily into the piping layout
- Premium accuracy over the broadest range of applications

E Sensor

- Compact dual-tube sensor
- Medium temperature up to +150 °C (+302 °F)
- Process pressure: up to 100 bar (1450 psi)
- Nominal diameter: DN 8 to 80 (3/8 to 3")
- Cost effective solution for Coriolis applications

X Sensor

- Nominal diameter: DN 350 (14") to 400 (12 to 16")
- Flanged connection from DN 300 to 400 (12 to 16")
- Highest capacity four-tube flowmeter with low pressure drop
- Complete exterior design made of 1.4435 (316L)
- Designed to meet the requirements of the oil and gas industry for high flow rate applications requiring reliability and low maintenance

O Sensor

- Measuring tube in 25Cr Duplex, 1.4410 (UNS S32750)
- Process pressure up to PN 250, Class 1500
- Nominal diameter: DN 80 to 150 (3 to 6")
- Robust design combines pressure and corrosion resistance
- Ideal for demanding upstream oil and gas applications such as high pressures up to 258 bar (3742 psi) or hydrocarbons with highly aggressive hydrogen sulfide (H_2S) content

Transmitter Features

300 Transmitter

500 Transmitter

Heartbeat technology

- Safe processes – permanent process and device diagnostics with clear indication of error and remedy by Heartbeat Diagnostics
- Reduce cost and risk associated with calibrating your meters – compliant in-process testing by Heartbeat Verification
- Full transparency for predictive maintenance – device and process data made available for trend analyses by Heartbeat Monitoring

Seamless system integration

- Direct and transparent integration of devices – flowmeters available with all state-of-the-art fieldbuses
- Perfect interaction between device and host – risk-free integration through extended host testing and certification
- Simple device replacement without expert know-how – guaranteed compatibility between devices and process control systems at all times

Data storage concept (HistoROM)

- Maximum plant safety – automatic storage of all device and configuration data
- Quick, easy, and safe exchange of components without need for parameterization of special user know-how – automatic restoration of data and settings
- Optimized operation and maintenance – safe monitoring of data series and quick failure analysis by integrated event logbook and data logger

Operation concept (HMI)

- Reduced complexity of operation – time-saving, standardized operating concept with uniform use interfaces, menu structures and parameter names
- Quick and safe commissioning – faultless operation due to guided parameterization for applications and brief explanations of the parameter functions
- Optimum usability – operator-oriented menu structure for user-specific tasks and multi-language support for worldwide use

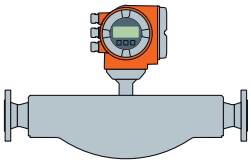
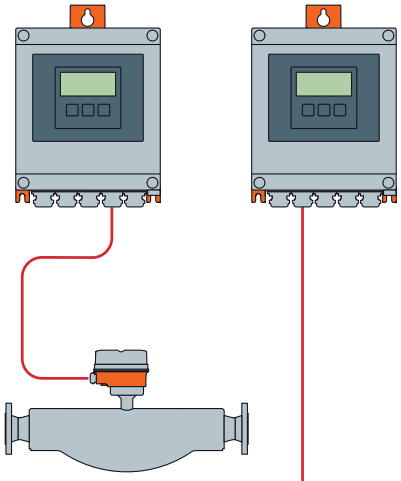
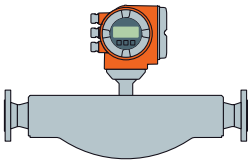
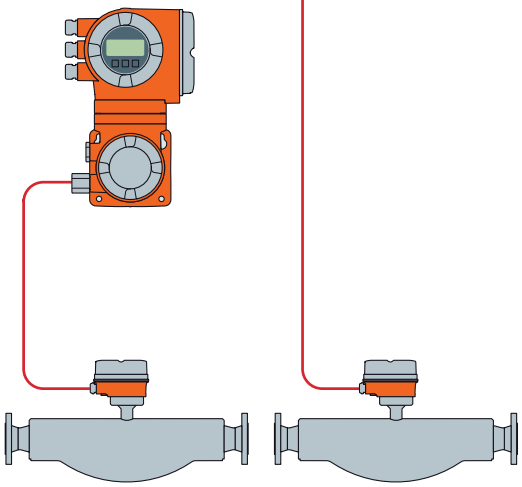
Web server

- No time wasting due to complex systems – no special equipment, software or additional interfaces required
- Increased plant accessibility – time-saving local operation and comprehensive access to device, diagnostic and process information
- Unnecessary plant downtime avoided – fast data up/download during maintenance or service, e.g. for data storage

Slot by slot I/O configuration

- The 300 transmitter has a total of thee I/O selections and the 500 transmitter has four selections
- Select only the modules that you need per the table below
- The new User Configurable selection is configured at the time of commissioning to either a 0/4 to 20 mA output, pulse/frequency/switch output, 0/4 to 20 mA input, or a status input for maximum flexibility of use

Variety of installation concepts

Proline 300 (compact version)	Proline 500 (remote version)
Non-Ex Ex: Zone 2, Class I Div. 2	Non-Ex Ex: Zone 2, Class I Div. 2
	
Ex: Zone 1, Class I Div. 1	Ex: Zone 1, Class I Div. 1
	

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SFOM007 Rev. 0.0 (5/17)