

With breakthrough 4-tube technology and larger sizes, Endress+Hauser's Promass Q finds new roles in oil and gas measurement

BURLINGTON, ON – Promass Q 300/500, the high-tech Coriolis flowmeter series from Endress+Hauser for demanding fluids, now boasts revolutionary 4-tube technology, opening up numerous additional applications in the oil and gas industry in particular – for example, as a highly accurate duty meter for custody transfer and fiscal metering, or as a precision reference device (master meter) for on-site verification measurements. Furthermore, Promass Q now is available for three larger pipe sizes: DN 150 (6"), DN 200 (8") and DN 250 (10").

Compared to Coriolis flowmeters with two measuring tubes, four-tube measurement allows up to 25% higher flow rates. This accelerates all transactions and ultimately saves money. For example, it reduces standstill times for loading and unloading oil tankers, resulting in lower charges. Unwanted pressure losses are much less significant with four measuring tubes during pumping and measuring operations, so plant operators can use smaller pumps, saving electricity costs. The reduced pressure loss also avoids unwanted cavitation effects or gas breakout, e. g., for very light hydrocarbons such as liquefied petroleum gases (LPG), natural gas liquids and condensates (NGL), liquefied natural gas (LNG) as well as other cryogenic fluids.

Around the world, over 90 million barrels of crude oil, natural gas and refined hydrocarbons are produced, transported, stored, and sold to end customers every day. In such transactions, any measuring inaccuracy, no matter how small, results in enormous shortfalls for the supplier or buyer. Existing users of Promass Q sensors benefit from their low pressure loss and outstanding accuracy for both minimal and very high flow rates. Adding 4-tube technology and an expanded measuring range for pipelines up to DN 250 means more users can benefit from their best-in-class attributes, including:

- Best measuring accuracy ($\pm 0.05\%$ o.r.): tested on various external, accredited calibration facilities
- Outstanding density measuring accuracy: $\pm 0.2 \text{ kg/m}^3$ ($\pm 0.0002 \text{ g/cm}^3$)
- Best turndown and zero point stability in the industry

Promass Q also records density and process temperature. This enables fluctuating process and ambient conditions to be incorporated into the measurement and compensated for reliably.

Promass Q sensors are available in stainless steel and in IP66/67, ensuring reliable and low-maintenance long-term operation in process temperatures from $-196 \text{ }^\circ\text{C}$ to $205 \text{ }^\circ\text{C}$. Due to their SIL-compliant device development, Promass Q is suitable for safety-related applications and holds several certifications for hazardous areas.

Combining Proline 300/500 transmitters with Promass Q 300/500 sensors enables numerous operational benefits, including WLAN (web server) for wireless operation and configuration on site, HistoROM for safe storage of configuration and device data, and Heartbeat Technology for diagnostics, device verification and process monitoring.

About Endress+Hauser

Endress+Hauser is a global leader in measurement instrumentation, services and solutions for industrial process engineering. Our products – sensors, instruments, systems and services for level, flow, pressure and temperature measurement as well as analytics and data acquisition – set standards in quality and technology. The company further supports its customers with automation engineering, logistics and IT services and solutions. Founded in 1953 by Georg H Endress and Ludwig Hauser, the Endress+Hauser Group has been solely owned by the Endress family since 1975. Today, the Group is managed and coordinated by a holding company based in Reinach, Switzerland, employing over 15,000 personnel across the globe. In 2021, the Group generated consolidated sales of about C\$4 billion. Endress+Hauser's production centres in 12

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countries meet customers' needs and requirements quickly and effectively, while its dedicated sales centres and strong partner network guarantee competent worldwide support.

Press Photo (see separate JPEG file attached)

Caption: The Promass Q 300/500 Coriolis flowmeter series from Endress+Hauser has added breakthrough 4-tube technology and larger sizes, making it ideal for new roles in oil and gas measurement.

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