

OPTIMASS

6400

HIGH ACCURACY- LIQUIDS/GAS CORIOLIS MASS FLOW METER

Measured Success™



Designed for the
Upstream Oil & Gas
Industry to handle
challenging applications

Volume Flow
Meter 0.10%
accuracy

Modbus RS-485 output
Secondary Configurable I/O

Entrained Gas
Management with
gas entrainment up
to 100%



16203 Park Row, Suite 125, Houston, TX 77084

info@microwave-precision.com | www.microwave-precision.com

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| MEASURING PRINCIPLE | Coriolis mass flow |
| PRODUCT HEADLINE | Accurate measurement of liquids and gases for a wide range of standard and custody transfer applications. Highest accuracy with bent tube design. |
| SENSOR FEATURES | Multi-purpose device; an alternative to conventional volumetric flowmeters. Fewer process measuring points – multivariable measurement (flow, density, temperature). Space-saving installation – no in/outlet run needs. Compact bent tube sensor. |
| TRANSMITTER FEATURES | Full access to process and diagnostic information – numerous, freely combinable I/O's and fieldbuses. Integrated verification – Opticheck Technology. Backlit display with touch control with BLUETOOTH access. |
| NOMINAL DIAMETER RANGE | DN 10 to 250 (1/2" to 10") |
| WETTED MATERIALS | Measuring tube: 1.4539 (904L) Connection: 1.4404 (316/316L) |
| MEASURED VARIABLES | Mass flow, density, temperature, volume flow, corrected volume flow, reference density, concentration |
| MAX. MEASURED ERROR | Mass flow (liquid): $\pm 0.10\%$ (standard), $\pm 0.05\%$ (option) Volume flow (liquid): $\pm 0.10\%$ measured flow + zero stability Mass flow (gas): $\pm 0.35\%$ measured flow + zero stability Density (liquid): $\pm 1.0 \text{ kg/m}^3$ |
| MEASURING RANGE | S40: 0 to 80000 kg/hr S50: 0 to 170000 kg/hr |
| MAX. PROCESS PRESSURE | ANSI 1500# 3300 PSI (@200 °F) |
| MEDIUM TEMPERATURE RANGE | -200 to +400 °C (-328 to +752 °F) |
| AMBIENT TEMPERATURE RANGE | Standard: -40 to +65 °C (-40 to 149 °F) Option: -50 to +65 °C (-58 to 149 °F) |
| SENSOR HOUSING MATERIAL | 1.4409 (316L), corrosion resistant |
| HOUSING MATERIAL | AlSi10Mg, coated; stainless steel |
| DEGREE OF PROTECTION | Standard: IP67, Type 4X enclosure |

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| DISPLAY/OPERATION | 4-line backlit display with touch control (operation from outside) Configuration via local display and operating tools possible. Remote display available |
| OUTPUTS | 3 outputs: 4-20 mA HART (active/passive) 4-20 mA (active/passive) Pulse/frequency/switch output (active/passive) Double pulse output (active/passive) Relay output |
| INPUTS | Binary |
| DIGITAL COMMUNICATION | HART, PROFIBUS PA, FOUNDATION Fieldbus, Modbus RS485, Profinet |
| POWER SUPPLY | DC 24 V AC 100 to 230 V |
| HAZARDOUS AREA APPROVALS | ATEX, FM, IECEX, CCSAUS, NEPSI, INMETRO, EAC |
| PRODUCT SAFETY | CE, C-tick, EAC marking |
| FUNCTIONAL SAFETY | Functional safety according to IEC 61508, applicable in safety-relevant applications in accordance with IEC 61511 |
| METROLOGICAL APPROVALS AND CERTIFICATES | Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025) NEPSI Opticheck Technology complies with the requirements for traceable verification according to ISO 9001:2008 – Section 7.6 a |
| PRESSURE APPROVALS AND CERTIFICATES | PED, CRN |
| MATERIAL CERTIFICATES | 3.1 material |