

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%



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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

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