

Coriolis Flow Meter

Technical Sheet

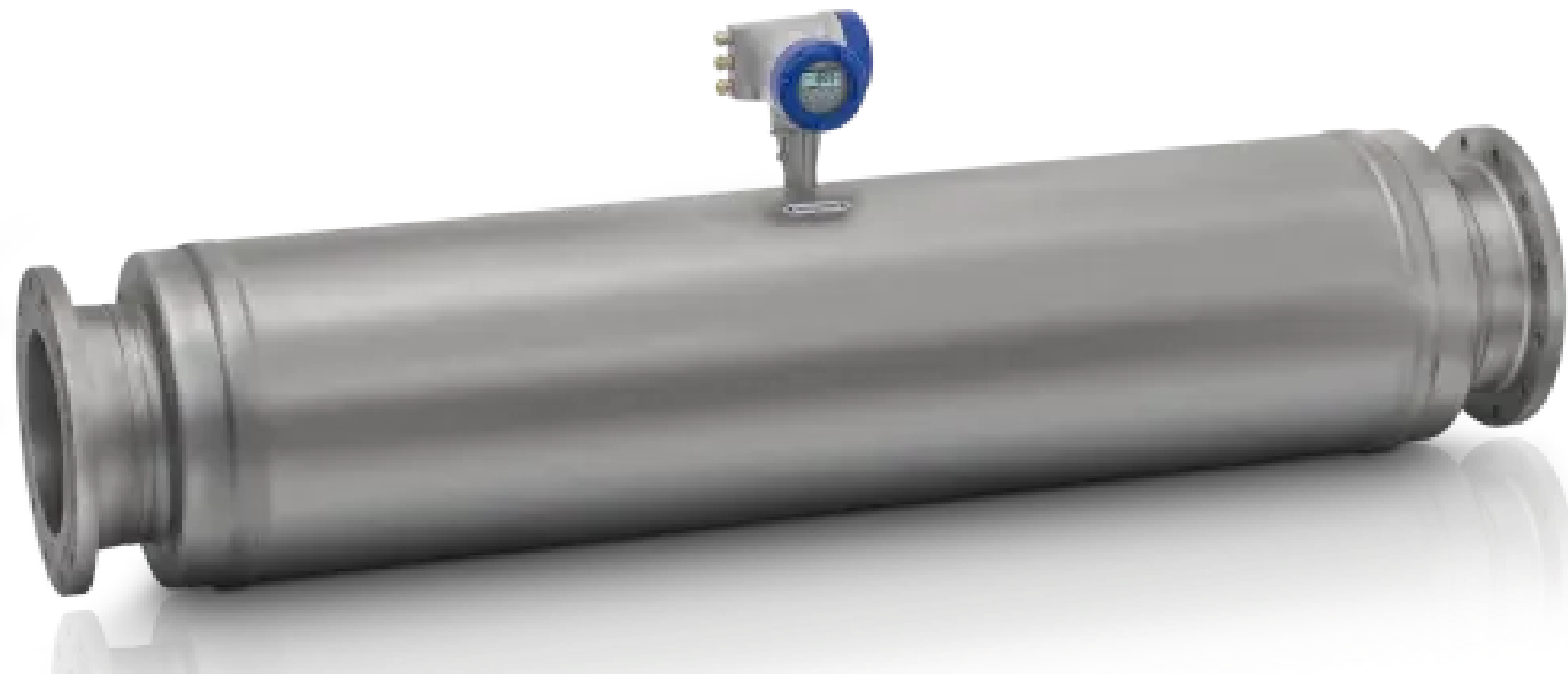


4" OPTIMASS 7400-Single Tube

| Coriolis | 4", Optimass 7400 – Single Tube | Coriolis | 4", Optimass 7400 – Single Tube |
|----------------------------------|--------------------------------------|-------------------------|---|
| Line Size | 4 inch (100 mm) | Pressure Rating | 1450 psi (100 bar) |
| Tube Diameter | 70.23mm | Process Pressure | 49.6 bar @ 20°C/38.5 bar @ 150°C |
| Connection | 4" ASME 300 lb | Flow Tube Material | 316L Stainless Steel |
| Process Fluid | Liquid, slurry, gas | Note | *Varies with transmitter model |
| Maximum Flow Rate - Mass | 20567 lb/min (560,000 kg/h) | Installation | Integral mount with sensor or remote mount |
| Maximum Flow Rate - Volume | 2450 gal/min (9.3 m3/min) | Process Variables | Mass, volume, density, temperature, concentration and velocity |
| Max Flow @ 1500 kg/m3 (12.52ppg) | 6.2 m3/min | Communication Protocols | HART®, Foundation Fieldbus, Profibus PA and DP, PROFINET IO, Modbus, Bluetooth® or EtherNet/IP® |
| Nominal Flow Rate - Mass | -- | Outputs | 2 analog channels (4-20mA) |
| Nominal Flow Rate - Volume | -- | Supply Voltage | 24 VDC or 100 to 230 VAC, self switching |
| Flow Accuracy - Liquid | ±0.10% of flow rate | Agency Approvals | CE, CSA, ANSI, ATEX |
| Flow Accuracy - Gas | ±0.35% of flow rate | Ex-Protection | cFMus Class 1 Div 1 (Canadian Standards) |
| Density Measuring Range | 25 to 155 lb/ft3 (400 to 2500 kg/m3) | Housing | NEMA 4X (IP67) enclosure |
| Density Accuracy | ±0.002 g/cm3 (±2.0 kg/m3) | Display | LC display, backlit white, 4 optical keys |
| Temperature Rating | -40 to 300°F (-40 to 150°C) | Mounting Length | 1455 mm |

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4" OPTIMASS 2400

| Coriolis | 4", OptiMass 2400 S100 – Dual Tube | Coriolis | 4", OptiMass 2400 S100 – Dual Tube |
|--------------------------------------|--|-------------------------|---|
| Line Size | 4 inch (100 mm) | Pressure Rating | 2030 psi (140 bar) |
| Tube Diameter | 46.66mm | | 719 PSI @ 68°F/580 PSI @ 266°F |
| Connection | 4" ASME 300 lb | Flow Tube Material | Stainless Steel UNS S31803 |
| Process Fluid | Liquid, slurry, gas | Note | *Varies with transmitter model |
| Maximum Flow Rate - Mass | 14698 lb/min (420,000 kg/h) | Installation | Integral mount with sensor or remote mount |
| Maximum Flow Rate - Volume | 1850 gal/min (7 m3/min) | Process Variables | Mass, volume, density, temperature, concentration and velocity |
| Max Flow @ 1500 kg/m3 (12.52ppg) | 4.7 m3/min | Communication Protocols | HART®, Foundation Fieldbus, Profibus PA and DP, PROFINET IO, Modbus, Bluetooth® or EtherNet/IP® |
| Custody transfer flow rates - Mass | 404 to 8083 lb/min (11,000 to 220,000 kg/h) | | Outputs |
| Custody transfer flow rates - Volume | 1660 to 33,210 bbl/day (0.18 to 3.67 m3/min) | Supply Voltage | 24 VDC or 100 to 230 VAC, self switching |
| Flow Accuracy - Liquid | ±0.10% of flow rate | Agency Approvals | CE, CSA, ANSI, ATEX |
| Flow Accuracy - Gas | ±0.35% of flow rate | Ex-Protection | cFMus Class 1 Div.1/Ex zone 1 |
| Density Measuring Range | 25 to 187 lb/ft3 (400 to 3000 kg/m3) | Housing | NEMA 4X (IP67) enclosure |
| Density Accuracy | ±0.001 g/cm3 (±1.0 kg/m3) | Display | LC display, backlit white, 4 optical keys |
| Temperature Rating | -40 to 140°F (-45 to 130°C) | Mounting Length | 1352 mm |



6" OPTIMASS 2000

| Coriolis | 6", Optimass 2000 S150 – Dual Tube | Coriolis | 6", Optimass 2000 S150 – Dual Tube |
|----------------------------------|--------------------------------------|-------------------------|---|
| Line Size | 6 inch (150mm) | Pressure Rating | 2030 psi (140 bar) |
| Tube Diameter | 68.78mm | | 719 PSI @ 68°F/580 PSI @ 266°F |
| Connection | 6" ASME 300 lb | Flow Tube Material | Stainless Steel UNS S31803 |
| Process Fluid | Liquid, slurry, gas | Note | *Varies with transmitter model |
| Maximum Flow Rate - Mass | 33804 lb/min (900,000 kg/h) | Installation | Integral mount with sensor or remote mount |
| Maximum Flow Rate - Volume | 3950 gal/min (15 m3/min) | Process Variables | Mass, volume, density, temperature, concentration and velocity |
| Max Flow @ 1500 kg/m3 (12.52ppg) | 10 m3/min | Communication Protocols | HART®, Foundation Fieldbus, Profibus PA and DP, PROFINET IO, Modbus, Bluetooth® or EtherNet/IP® |
| Nominal Flow Rate - Mass | 18372 lb/min (500,000 kg/h) | Outputs | 2 analog channels (4-20mA) |
| Nominal Flow Rate - Volume | 2200 gal/min (8.33 m3/min) | Supply Voltage | 24 VDC or 100 to 230 VAC, self switching |
| Flow Accuracy - Liquid | ±0.10% of flow rate | Agency Approvals | CE, CSA, ANSI, ATEX |
| Flow Accuracy - Gas | ±0.35% of flow rate | Ex-Protection | Flameproof enclosure "d" II 1/2 G - Ex db ia IIC T6...T1 Ga/Gb II 2 D - Ex tb IIIC T160°C Db PTB 12 ATEX 2014 X IECEx PTB 12.0042 X terminalbox Ex "d" |
| Density Measuring Range | 25 to 187 lb/ft3 (400 to 3000 kg/m3) | Housing | NEMA 4X (IP66/67) enclosure |
| Density Accuracy | ±0.001 g/cm3 (±1.0 kg/m3) | Display | LC display, backlit white, 4 optical keys |
| Temperature Rating | -40 to 140°F (-45 to 130°C) | Mounting Length | 1669 mm |

For more information, please visit this link:

<https://krohne.com/en/products/flow-measurement/flowmeters/coriolis-mass-flowmeters>