CAMERON
A Schlumberger Company

CamCor Coriolis Flow Meters

CT and PRO Series, for all custody transfer and process applications

CamCor CT Series Coriolis Flowmeter

Specifically designed for custody transfer applications

Precision accuracy, dual deep "U" sensor tubes, our top-of-the-line CamCor CT Series* custody transfer flowmeter offers highest performance for accuracy, repeatability, wide flow range, low pressure loss, and safe design.

Features

- Deep "U" shaped dual sensors maximize accuracy
- Flow rate turndown up to 200:1
- Transmitters available as integral or remote-mounted
- Low-temperature models suitable for cryogenic fluids, such as LNG
- High-temperature models suitable for temperatures over 600 degF (315 degC)
- Extensive I/O count, including dual independent pulse outs, dual independent analog outs, status in, and status out
- Communications: Modbus® RS-485 and HART® compliant
- Easy configuration via infrared sensors or EZ-Link interface software
- Self-diagnostic display—informs user of potential problems
- Diagnostic check for pipeline vibration and media pulsation

CamCor CT Series Coriolis Flowmeter		
Model		CC00A, CC001, CC003, CC006, CC010, CC015, CC025, CC040, CC050, CC080, CC100, CC150, CC15H, CC200, CC20H, CC250
Nominal connection size, in		¼, ⅜, ½, ¾, 1, 1½, 2, 3, 4, 6, 8, 10
Process connection types (depends on sensor size)		ANSI Flanges—150#, 300#, 600#, 900# RF & RTJ
		DIN PN 10, 16, 25, 40RF; ferrule/tri clover; threaded
Acceptable media		Liquids, gases
Nominal flow range (consult general specs for details)		CC00A: 0–5.3 lbm/hr [0–0.63 GPH]; 0–2.4 kg/hr [0–2.4 L/hr]; CC250: 0–3,086,000 lbm/hr [0–211,522 BPD]; 0–1,400,000 kg/hr [0–33,629 m3/hr]
Flow rate uncertainty	Liquids	+/- 0.1% of reading (+/- zero stability error)
	Gases	+/- 0.5% of reading (+/- zero stability error)
Density uncertainty		+/- 0.0005 g/ml (CC003 thru CC250)
Operating temps, degF [degC]	Standard sensor	-4–194 [-20–90] process temp with integral transmitter; -40–392 [-40–200] process temp with remote transmitter
	High temp sensor	-4–662 [-20–350] process temp with remote transmitter
	Low temp sensor	-328–122 [-200–50] process temp with remote transmitter
	Transmitter	-40–+131 [-40–+55] ambient temp
Max working pressure		Limited by flange rating and wetted materials
Wetted materials		316/316L SST; 316/316L SST and Hastelloy alloy C22; Hastelloy alloy C22
Transmitter hazardous location certification (explosion-proof†/flame-proof†)		CSA C/US class I zone 1 Ex d ib IIB T4 Gb (integral); CSA C/US class I zone 1 Ex d [ib] IIB T6 Gb (remote); ATEX / IECEx II2G Ex d ib IIC T4 Gb (integral) pending; ATEX / IECEx II2G Ex d [ib] IIC T6 Gb (remote) pending
Dust-proof/waterproof†		IP66/IP67

† Explosion-proof, flame-proof, and waterproof as defined by CEC, NEC, ATEX, IEC and CE codes.

CamCor Pro Series Coriolis Flowmeter

Ideal for oil field production applications

High accuracy, dual shallow "bow" sensor tubes. Our process-grade CamCor PRO Series* coriolis flowmeter offers high performance for accuracy, repeatability, wide flow range, low pressure loss, and safe design.

Features

- Shallow "bow" shaped dual sensors maximize accuracy
- Flow rate turndown up to 50:1
- Transmitters available as Integral or remote-mounted
- Extensive I/O count, including dual independent pulse
- outs, dual independent analog outs, status in, and status out
- Communications: Modbus RS-485 and HART compliant
- Easy configuration via infrared sensors or EZ-Link interface software
- Self-diagnostic display – informs user of potential problems
- Diagnostic check for pipeline vibration and media pulsation

The CamCor CT series and PRO series coriolis flowmeters deliver high accuracy and repeatability, wide flow range, and low pressure loss.

- Large time-stamped event log
- Assignable alarms
- Displays smart error codes
- Unique vibration and pulsation detection diagnostics

CamCor PRO Series Coriolis Flowmeter		
Model		CP006, CP010, CP015, CP025, CP040, CP050
Nominal connection size, in		½, 1, 1½, 2
Process connections (depends on sensor size)		ANSI flanges — 150#, 300#, 600# RF & RTJ
		Ferrule/tri clover
Acceptable media		Liquids
Nominal flow range (consult general specs for details)		CP006: 0–1,323 lbm/hr [0–2.6 GPM]; 0–600 kg/hr [0–11.8 L/min]; CP050: 0–105,822 lbm/hr [0–212 GPM]; 0–48,000 [0–801 L/min]
Flow rate uncertainty		+/- 0.2% of reading (+/- zero stability error)
Density uncertainty		+/- 0.003 g/ml
Operating temps, degF [degC]	Sensor	-40–176 [-40–80] process temp with integral transmitter (except model CP015); -40–158 [-40–70] process temp with integral transmitter (model CP015); -40–257 [-40–125] process temp with remote transmitter
	Transmitter	-40–131 [-40–55] ambient temp
Max working pressure		Limited by flange rating and wetted materials
Wetted materials		316/316L SST
Transmitter hazardous location certification (explosion-proof†/flame-proof†)		CSA C/US class I zone 1 Ex d ib IIB T4 Gb (integral); CSA C/US class I zone 1 Ex d [ib] IIB T6 Gb (remote); ATEX / IECEx II2G Ex d ib IIB T4 Gb (integral) pending; ATEX / IECEx II2G Ex d [ib] IIC T6 Gb (remote) pending
Dust-proof/waterproof†		IP66/IP67

† Explosion-proof, flame-proof, and waterproof as defined by CEC, NEC, ATEX, IEC and CE codes.

CamCor Coriolis Flowmeters

cameron.slb.com/CamCor

CAMERON
A Schlumberger Company