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Coriolis Flow Meter

Description

The Coriolis mass flow meter identifies flow rate by directly measuring mass flow and density of fluids over a wide range of process temperatures with a high degree of accuracy. For homogenous fluids consisting of two components like sugar and water, the Coriolis system can derive the concentration and mass of each component based on fluid properties and density measurement. Furthermore, the unobstructed, open flow design makes it suitable for a variety of fluids such as slurries and other viscous, nonconductive fluids that are difficult to measure with other technologies.

Technical Data

SENSOR		
WETTED MATERIALS		316L SS
TEMPERATURE	**FLUID RANGE**	-40°C TO 200°C
	ACCURACY	± 1°C
	REPEATABILITY	0.3°C
PROCESS CONNECTIONS	**1/4"**	NPT, FSF, FSM
	DN15 – DN80	NPT, DIN flange PN40 ANSI flange 150 lb and 300 lb Tri-Clamp®
PRESSURE		UPTO 190 BAR
CONFORMANCE		ASME B31.3 PRESSURE PIPING HYDRO TEST NACE MR0175/ISO 15156
REPEATABILITY		±0.05% OF READING ± ZERO STABILITY
TRANSMITTER		
ENCLOSURE		NEMA 4(IP-65); POWEDER COATED ALUMINUM,POLYCARBONATE, URETHANE & SS
POWER REQUIREMENTS		115/230V AC / 20…28V DC
AMBIENT TEMPERATURE		-10°C TO 70°C
CONFIGURATION		FOUR BUTTON HMI, RCT CONSOLE

DISPLAY		4 LINE X 20 CHARACTER,ALPHA NUMERICAL,DOT MATRIX, LCD BACKLIGHTING
RTD INPUT		BUILT IN 100 OHM 3 WIRE PLATINUM RTD INPUT
CALIBRATION		FACTORY WET CALIBRATION CERTIFICATE PROVIDED
ANALOG I/O	OUTPUTS	THREE 4-20 MA
	INPUTS	INPUTS TWO 0-5VDC INPUT
DIGITAL I/O	OUTPUTS	FOUR 5…28V DC, 50 MA MAX CURRENT DRAW (EXTERNAL PULLUP RESISTOR REQUIRED)
	INPUTS	FOUR 5…28V DC, 1 K OHM IMPEDANCE
COMMUNICATION		MODBUS RTU(EIA-485/RS485), MODBUS TCP/IP & ETHERNET/IP
CONFIGURATION PORT		USB 2.0 INTERFACE
ALARMS		SIX HI/LO ALARMS ALARM STATUS ON DISPLAY BY DEFAULT, ASSIGNABLE TO DIGITAL I/O (LIMIT 2 OR 4) AND AVAILABLE VIA DIGITAL COMMUNICATIONS
TRANSMISSION DISTANCE		UPTO 100 FEET
OTHER FUNCTIONS		BATCH CONTROL, PID CONTROL, USER CONFIGURATION OF ALL I/O FUNCTIONS
MEASUREMENTS		FORWARD AND REVERSE MASS FLOW AND TOTAL, DENSITY, TEMPERATURE; CONCENTRATION, VOLUMETRIC FLOW AND TOTAL (DERIVED