Product Information - IZMS

FOOD

"IZMS" Electromagnetic Flowmeter

Introduction

The IZMS series electromagnetic flowmeter is the ideal choice for conductive fluids and slurries. Measurement accuracy is unaffected by product viscosity, density, temperature, and the presence of suspended particulates and solids. Unique signal processing methods developed from years of experience in the food and dairy industry allows this flowmeter to provide exceptional accuracy and immunity against process and environmental variables.

Designed for simple installation and start up, the IZMS features automatic flow ranging and user friendly parameterization. Offered in a 2-piece design as standard gives the meter optimal performance and longevity in hot, humid process environments typically found in the food and dairy processing industry.

For more information on this flowmeter, or any of our Anderson-Negele products, visit www.anderson-negele.com or call our Customer Service Department directly at 1-800-833-0081.



Authorizations



Features

- Designed specifically for the food/ beverage and dairy industries yielding proven, unsurpassed accuracy and reliability
- · Standard two-piece design provides:
- practical, easily accessible locations for operator display
- protection for electronics from harsh operating environments
- · Meets all USDA standards
- · 3-A compliant

Applications

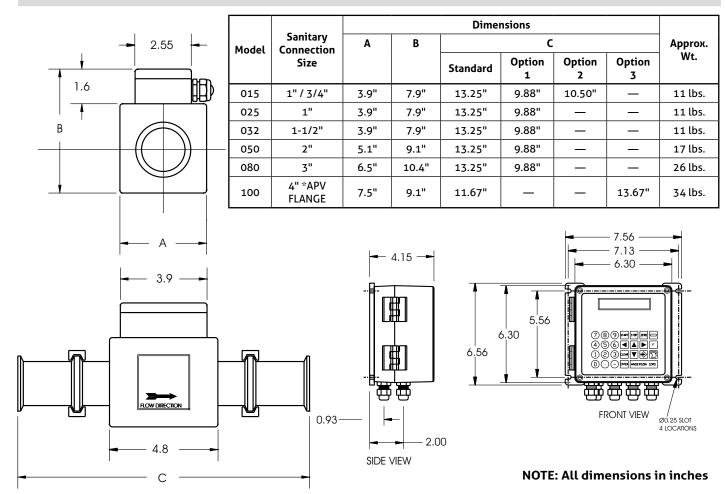
- · Beer
- Beverage Concentrates
- · Brine
- · Catsup
- · CIP Solution
- Milk
- · Cream
- · Juices
- · Molasses
- · Yogurt
- · Peanut Butter
- · Sauces

Specifications			
FLOW TUBE Connections: Construction: Housing: Lining: Electrodes:	Sanitary Tri-Clamp® 304 SS PTFE (Non-filled Teflon®) 316L SS	Output Pulse Config:	Selectable from following: 2 independent 2 channel by 90° shift 2 channel by 180° shift 3 channel by 120° shift 1 forward flow, 1 reverse flow
Connection Box:	cast aluminum with corrosion resistant coating	Output Control Signal:	Open collector 30V@80mA Selectable from following:
Wiring Connections: Maximum	water tight cord grip and 1/2" NPT NPT SS conduit adapter sets supplied with each flow tube	Analog Output:	forward flow - error signal 4-20mA or 0-20mA selectable Adjustable averaging 0.1 to 10 sec Adjustable damping 0 to 60 sec
Product Temp:	300°F/149°C		Max. resistive load 500 ohms
Maximum Inlet Pressure:	115 psi / 8 bar	Display(option 1 & 2):	Second passive analog output with HART Communication ver. 6
Minimum Inlet Pressure: Minimum	7 psi absolute / 0.5 bar	Discrete Inputs:	Suspended Operation - coil power supply off Remote reset internal totalizer with error
Fluid Conductivity: Magnetic Field:	5 μS / cm DC pulsed with self-adapting		reset Opto-isolated
CONVERTER	adjustment		10-30V input from 3k Ohm internal resistor 1msec min. pulse width with adjustable debounce
Power Requirements:	Field selectable (by jumpers) 115VAC/50-60 Hz/single phase	LED Indicators:	Pulse Output 1; Pulse Output 2; Forward Flow; Error Condition
	230VAC/50-60 Hz/single phase 10-30VDC available	Rezero Feature:	Pushbutton for automatic hydraulic re- zero of flow tube during field installation
Fuse Protection:	15VA (15 Watts) 315mA slow response 5x20mm	Serial Comm:	RS485 serial interface Control System Bus protocol, 57,600 Baud
	s: Two (2) independent, scalable pulsed outputs Open collector 30V@80mA Opto-isolated	Integral Display (D option) and Keypad	: 2-line, 20 digit alphanumeric backlit LCD display. 25 key membrane keypad
Scaling Factors:	From 0.00001 to 10,000 pulses per volumetric unit	Interconnecting Cable	: 25ft. supplied as standard with factory prepared ends.
Output Pulse	•	Operating Temp:	-4°F to 140°F (-20°C to 60°C)
(Frequency & Width):	Standard Configuration: 1:1 pulse to pause ratio, 1000 Hz Max.		n: Cast aluminum with SGBL corrosion- resistant coating
	Adjustable: 1-60,000msec, 1000 Hz Max. Fixed: 50 micro sec pulse width, 1000 Hz Max.	Entry Wiring Connections:	Water tight cord grip and 1/2" female SS NPT conduit adapter sets supplied with each converter

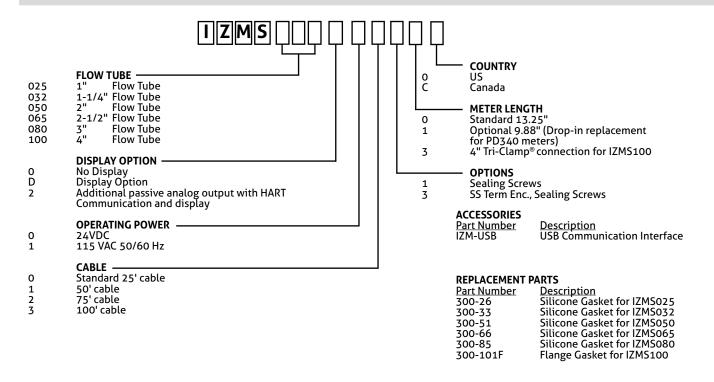
Flow Ranges

Connection Size	Total operational range	Metering accuracy at rate	
inches	gallons per minutes	< 1%	<.25%
3/4	.11 - 26.4	>.11 gpm	>.26 gpm
1	.26 - 88	>.26 gpm	>1.0 gpm
1 1/2	.44 - 132	>.44 gpm	>1.8 gpm
2	.88 - 286	>.88 gpm	>3.5 gpm
2 1/2	1.8 - 440	>1.8 gpm	>6.2 gpm
3	2.6 - 880	>.11 gpm	>.26 gpm
4	6.6 - 1761	> 6.6 gpm	>26.4 gpm

Dimensions



Order Information



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