

KAL-A Flow Transmitter



Benefits and Features

- Temperature independent 4-20 mA output
- Optional setpoint switch
- NPT and 3-A compliant sanitary fittings
- Compact Design
- Operate over a wide viscosity range
- No moving parts
- Extremely low pressure loss
- Easy to operate
- Insensitive to dirt

General Description

The KAL-A uses the calorimetric principle to continuously monitor the flow of low viscosity water-based media. Flow rate is transmitted via a 4-20 mA output while an optional PNP switch provides an alarm function. The transmission capability of the KAL-A is made possible by the high degree of temperature stability provided by its "intelligent" microprocessor based design.

Integrating the heating measuring functions into a single enclosed tip allows the probe to be machined into a single, continuous, protrusion-free surface. The absence of protrusions prevents contaminant from building up on the probe tip.

These design enhancements improve the KAL's performance in two ways:

1. The KAL's sensing stability is increased because contaminant cannot thermally isolate the probe from the liquid.
2. System down-time associated with probe cleaning is dramatically decreased.

Specifications

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Sensing Range	0.05 - 2 m/s	Housing	
Media:	Water-based liquids 60 cSt max.	Standard:	NEMA 4 (Nylon®)
		Sanitary:	NEMA 4 (Nylon®)
Response Time			
Typical:	5.6 seconds		
Fittings		Analog Output	
Standard:	1/2" or 3/4" NPT	Signal Type:	4-20 mA, 3-wire into 500 Ω max.
Sanitary:	1 1/2" Tri-Clamp®	Linearity:	±10% of full scale
		Repeatability:	±1% of full scale
Flow Trend Indicator:	8 Red LEDs	Zero Adjustment:	0-75% of range
Maximum Pressure:	1450 PSIG	Span Adjustment:	25-100% of range
Sanitary:	600 PSIG	Switch Characteristics	
Temperature		Adjustment:	by Potentiometer
Operating:	0°F to 176°F	Selectable Output:	PNP open collector
CIP:	280°F	Max. Current:	400 mA
Wetted Parts		Max. Voltage:	24 VDC
Standard:	304 SS or 316-Ti SS	Status Indicator:	Bi-colored LED
Sanitary:	316-Ti SS	Power Requirements	
		Supply Voltage:	24 ± 2 VDC
		Current Draw:	300 mA max.

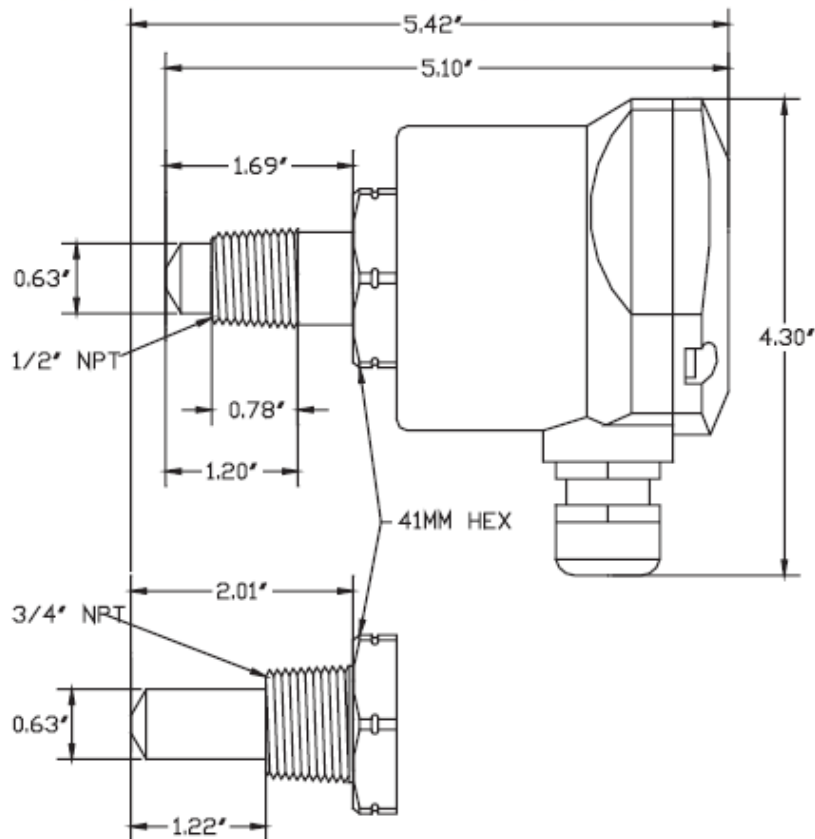
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Ordering Information

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Model	Wetted Parts	1/2" Model	3/4" Model
Standard	304 SS	KAL-7215	-
Standard 316-TI SS	316-TI SS	KAL-7315	KAL-7320
Sanitary	316-TI SS	KAL-7340-S	
Options			
PNP Switch		Suffix: "P"	
Micro DC Connector with 6 ft. of cable		Suffix: "M12"	

Dimensions



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↩ Dimensions

