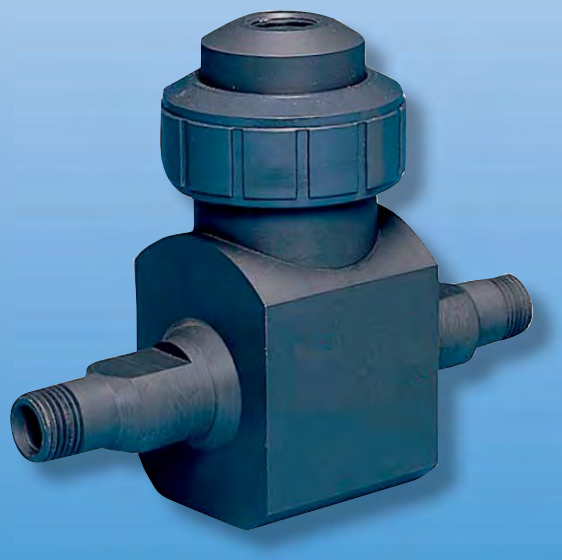
UV
PLASTIC VORTEX TRANSMITTER

KOBOLD

Flow
Pressure
Level
Temperature
Measurement
Monitoring
Control



- All-Plastic Design
- No Moving Parts
- 4–20 mA 2-Wire Transmitter
- Accuracy: ± 1% Full Scale
- Flow Rates Up to 300 GPM
- Ideal for Any Water (Dirty or Clean) and Most Corrosive Liquids

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Key Features

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KOBOLD UV Plastic Vortex Transmitter

Description

The UV vortex meter is a low cost transmitter with all-plastic wetted surface. It has no moving parts and is ideal for low viscosity, corrosive, and dirty liquids. Typical applications include chemicals, clean liquids, deionized water, sea water, and solvents. In addition, the UV can tolerate some suspended matter.

The electronic transmitter is extremely compact. It is calibrated at the factory for a specific liquid, but can be recalibrated in the field. Potentiometers are provided to adjust for zero, span and viscosity. The plug-in electronics module can be easily removed from the meter body and can be re-used should the original meter be damaged. The 4–20 mA output can be user scaled for any zero and span in the usable range. The meter will accurately measure up to 125% of the maximum flow listed. The signal for this amount of over-ranging would be 24 mA provided the user has sufficient voltage.

Power requirements are a function of total loop resistance. With supply voltages in the range of 8 to 28 V_{DC}, the transmitter can drive into resistances of up to 1000 ohms The transmitter output is directly proportional to the rate of flow.

Specifications

Accuracy:	±1% of full scale
Repeatability:	± 0.25% of actual flow
Maximum Temperature	
PVC	
at 50 PSIG:	140°F
at 100 PSIG:	100°F
at 150 PSIG:	70°F
PVDF	
at 85 PSIG:	200°F
at 130 PSIG:	150°F
at 150 PSIG:	100°F
Maximum Pressure:	Varies with temperature up to 150 PSIG at 70 °F
Wetted Parts:	PVC, PVDF, other plastics on request
Connection Style	
PVC:	NPT Thread and Wafer
PVDF:	Butt End and Wafer
Response Time:	2 seconds
Power Requirements:	8–28 V_{DC}, dependent on load
Output Signal:	4–20 mA, 2-wire
Maximum Viscosity:	6 cSt
Protection:	NEMA 4X/IP 66

Order Details (Example: **UV-2300W**)

Flow Range [GPM]	Max. Pressure Drop [PSI]	Body Size	Model Number				Weight [lbs]
			PVC		PVDF		
			NPT	Wafer	Butt End	Wafer	
0.62 - 5	20	1/4"	**UV-1005N**	-	**UV-2005B**	-	1.5
1.25 - 15	4	1/2"	**UV-1015N**	**UV-1015W**	**UV-2015B**	**UV-2015W**	1.6
2.08 - 25	5	3/4"	**UV-1025N**	**UV-2025W**	**UV-2025B**	**UV-2025W**	1.7
4.17 - 50	8	1"	**UV-1050N**	**UV-2050W**	**UV-2050B**	**UV-2050W**	1.8
8.33 - 100	5	1 1/2"	**UV-1100N**	**UV-2100W**	**UV-2100B**	**UV-2100W**	2.7
16.67 - 200	8	2"	**UV-1200N**	**UV-2200W**	**UV-2200B**	**UV-2200W**	3.1
25.0 - 300	4	3"	-	**UV-2300W**	-	**UV-2300W**	4.8