

UV PLASTIC VORTEX TRANSMITTER



Flow
Pressure
Level
Temperature
measurement
monitoring
control



Special Features

- All-Plastic Design
- No Moving Parts
- 4–20 mA
2-Wire Transmitter
- Accuracy: $\pm 1\%$ Full Scale
- Flow Rates Up to 200 GPM
- Ideal for Any Water (Dirty or Clean) and Most Corrosive Liquids

S5



USA

KOBOLD Instruments Inc.
1801 Parkway View Drive
USA-Pittsburgh, PA 15205
☎ +1 412-788-2830
Fax +1 412-788-4890
E-mail: info@koboldusa.com



CANADA

KOBOLD Instruments Canada Inc.
9A Aviation
Pointe-Claire, QC H9R 4Z2
☎ +1 514-428-8090
Fax +1 514-428-8899
E-mail: kobold@kobold.ca

Visit KOBOLD Online at
www.kobold.com

Model:
UV



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, de-ionized 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 13 to 30 VDC, the transmitter can drive into resistances of up to 1000 ohms. The transmitter output is directly proportional to the rate of flow.

Special Features

- All Plastic Design
- No Moving Parts
- 4–20 mA
2-Wire Transmitter
- Accuracy: $\pm 1\%$ Full Scale
- Flow Rate Up to 200 GPM
- Ideal for Any Water (Dirty or Clean) and Most Corrosive Liquids

Specifications

Accuracy: $\pm 1\%$ of full scale
Repeatability: $\pm 0.25\%$ of full scale

Maximum Temperature: PVC

140°F at 50 PSIG,
 100°F at 100 PSIG,
 70°F at 150 PSIG

Maximum Temperature: PVDF

200°F at 85 PSIG,
 150°F at 130 PSIG,
 100°F at 150 PSIG

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
PVDF: Wafer

Response Time: 1.5 seconds

Power Requirements: 13–30 VDC,
 dependent on load

Output Signal: 4–20 mA

Maximum Viscosity: 10 cPs

Ordering Information

Model		Body Size	Min. Flow (GPM)	Normal Span (GPM)	Max. Span (GPM)	Max. Press Drop (PSI)	WT lb.
PVC	PVDF						
UV-1005	UV-2005	1/4"	.62	3	5	10	1.5
UV-1015	UV-2015	1/2"	1.25	15	15	8	1.6
UV-1025	UV-2025	3/4"	2.08	18	25	9	1.7
UV-1050	UV-2050	1"	4.17	30	50	9	1.8
UV-1100	UV-2100	1 1/2"	8.33	80	100	8	3.1
UV-1200	UV-2200	2"	16.67	120	200	12	2.7