

Lab-Scale Ultrasonic Flowmeters/Transmitters

Ideal for measuring high-purity solutions, slurries, and corrosive chemicals

- Flow-through design with no intrusions produces almost no pressure loss
- No mechanical seals to leak or moving parts to wear out
- Segregated design for remote placement of sensor or transmitter/display

This design is ideal for use with fluids that have physical or chemical properties different from general-use water. The sensor uses high-purity, chemically inert PFA (perfluoroalkoxy) tubing. The sensor housing is made of durable ABS plastic for placement in aggressive environments. A 6-ft (1.85-m) cable allows for remote installation of the sensor.

What's included: flow sensor including 6-ft cable, and transmitter.



Flow sensor 32986-50 with transmitter



Specifications

Fluid type: water, slurries, chemicals
Accuracy: ±2% of reading
Repeatability: ±0.5%
Operating temperature: 50 to 140°F (10 to 60°C)

Operating pressure: 70 psig max (0.49 MPa)
Wetted materials: PFA
Connections: PFA tube-end (4" lead)

Output signal(s): 4 to 20 mA scaled pulse, open collector, 15 VDC @ 15 mA
Pulse frequency (max): 1000 Hz @ 100% flow
Display type: backlit LCD, 2-line; 16 digit alphanumeric

Power: 24 VDC ±10%, 300 mA
Enclosure rating
 Controller: NEMA 2/IP20
 Sensor: NEMA 4X/IP65
Panel cutout: 1.6"W x 4.0"H
Dimensions
 Controller: 1.6"W x 4.9"H x 4.25"D
 Sensor: 4.6"L x 1.2"W x 1.8"H

Flow range	Connections	Pulse output		Current output (4 to 20 mA)	
		Catalog number	Price	Catalog number	Price
0.001 to 0.01 GPM (5 to 50 mL/min)	1/16" OD	R-32986-50		R-32986-56	
0.003 to 0.15 GPM (12 to 600 mL/min)	1/8" OD	R-32986-52		R-32986-58	
0.04 to 1.06 GPM (160 to 4,000 mL/min)	1/4" OD	R-32986-54		R-32986-60	

R-32986-99 Outlet-mounted power supply, 90 to 264 VAC to 24 VDC
R-26901-12 DIN-mount power supply

Pilot-Scale Ultrasonic Flowmeters/Transmitters

Ideal for measuring high-purity solutions up to 4.76 GPM (18 LPM)

- Flow-through design with no intrusions produces almost no pressure loss
- No mechanical seals to leak or moving parts to wear out
- Segregated design for remote placement of sensor or transmitter/display

This design is ideal for use with fluids that have physical or chemical properties different from general-use water. The sensor uses high-purity, chemically inert PFA (perfluoroalkoxy) tubing. The sensor housing is made of durable ABS plastic for placement in aggressive environments. A 16-ft (5-m) cable allows for remote installation of the sensor.

All programming of the controller is done through the four-button panel. For improved accuracy, program and linearize measurement for up to 15 data points. The controller panel also includes indication for an alarm that can be programmed on either flow rate (high and/or low) or totalized flow. For datalogging and process integration, the controller offers a user-programmable (0 to 10% of full-scale) low-flow cut-off.

What's included: flow sensor, including 16-ft cable and controller.



32986-80



Specifications

Fluid type: water, slurries, chemicals
Accuracy: ±2% of reading (water)
Linearity: user determinable, 15-point
Repeatability: ±0.5%

Operating temperature
 Sensor: 50 to 104°F (10 to 40°C)
 Controller: 32 to 122°F (0 to 50°C)
Operating pressure: 75 psig max (0.52 MPa)
Wetted materials: PFA

Connections: PFA tube-end (4" lead)
Special indicators: 2 LED, alarm
Output signal(s): 4 to 20 mA or 0 to 10 V scaled pulse, open collector, 30 VDC at 20 mA

Pulse frequency (max): 5 Hz, 10 Hz, or 1000 Hz
Relay type: 2-point alarm, open collector, 30 VDC at 20 mA
Display: backlit LCD, 2-line 16-digit alphanumeric
Power: 24 VDC ±10%, 150 mA (1.5 A peak)
Enclosure rating: IP20, controller
Panel cutout: 3.7"W x 1.7"H
Dimensions
 Controller: 3.8"W x 1.9"H x 7.0"D
 Sensor: 4.8"L x 1.0"W x 2.0"H

Flow range	Connections	Voltage output (0 to 10 V)		Current output (4 to 20 mA)	
		Catalog number	Price	Catalog number	Price
0.03 to 2.38 GPM (0.11 to 9 L/min)	3/8" OD	R-32986-80		R-32986-86	
0.61 to 4.76 GPM (0.23 to 18 L/min)	1/2" OD	R-32986-82		R-32986-88	

R-32986-99 Outlet-mounted power supply, 90 to 264 VAC to 24 VDC.....
R-26901-12 DIN-mount power supply