

TruFlo® — UltraFlo® UF-500S

Clamp-On Ultrasonic Flow Meter Sensor



Features

- High Accuracy | $\pm 2.0\%$ of Full Scale
- Ultra Low Flow Ranges
- Simple Installation - No Cutting of Pipe
- Works on Carbon Steel | Stainless Steel | PVC | Copper | PVDF | PFA | PTFE | PU | Aluminum
- Excellent Corrosion Resistance
- No Moving Parts

Specifications

Pipe Size Range (OD)	1/4" ~ 1/2" 6mm ~ 12.7mm
Temperature Range	14 ~ 122°F -10 ~ 50°C
Ambient Humidity	RH 0~95%, No Condensation
Repeatability	$\pm 0.8\%$
Output	4-20mA, Max. load:600Ω
Relay Output	30VDC @ 1A Switching Freq. < 2Hz*
Alarm Output	OCT Upper & Lower Limit Alarm Function
Communication	MODBUS RS485
Viscosity Range	<300Cst Max.
Sensor Body	Aluminum
Display	2.4" 320*240 IPS LCD
Power Supply	24 VDC, 3W
Connection	M12
Accuracy	$\pm 2.0\%$ (0.3m/s ~ 5.0m/s)
Units	GPM LPM m3/h ml/min LPH
Protection Class	IP65
Standards	CE FCC RoHS Compliant

Flow Range & Accuracy

Size	6.35mm 1/4"	8.00mm 5/16"	9.53mm 3/8"	12.70mm 1/2"
OD (mm)	6.00 ~ 6.35	8	9.53 ~ 10.0	12.0 ~ 12.7
ID (mm)	3.00 ~ 3.20	5	6.38 ~ 7.00	9.00 ~ 9.55
Flow Range	0-103.0 GPH	0-145.8 GPH	0-218.7 GPH	0-317.0 GPH
Flow Range Accuracy	0-4.7 GPH (± 0.12 GPH)	0-6.3 GPH (± 0.15 GPH)	0-9.5 GPH (± 0.19 GPH)	0-17.4 GPH (± 0.39 GPH)
	4.7-103.0 GPH ($\pm 2.0\%$)	6.3-145.8 GPH ($\pm 2.0\%$)	9.5-218.7 GPH ($\pm 2.0\%$)	17.4-317.0 GPH ($\pm 2.0\%$)

Model Selection

UltraFlo 500S — Clamp-On Ultrasonic Flow Meter		
Size	Part Number	Material
6.35mm 1/4"	UF500S-A-06	Aluminum
8.00mm 5/16"	UF500S-A-08	Aluminum
9.53mm 3/8"	UF500S-A-09	Aluminum
12.70mm 1/2"	UF500S-A-12	Aluminum

Add Suffix -
'P' - Pulse Output

