



FLOW



Technology Solutions

Ultrasonic Clamp-On Flow Meter

Tek-Clamp 1200A



1 FEATURES

- Better than $\pm 1.0\%$ accuracy
- Pipe diameters from $\frac{1}{2}$ " to 28"
- Protection class:
IP65 (Tek-Clamp 1200A-100F1),
IP57 (Tek-Clamp 1200A-100M)
- 4 x 4 key tactile-feedback membrane keypad
- Power supply AC 85-264 V or isolation DC 8-36 VDC
- LCD with backlight 2 x 20 letters

3 APPLICATIONS

- Power plants
- Water, wastewater treatment plants
- Mining and metallurgy plants
- Petroleum process monitoring and control
- Chemical process monitoring and control

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2 SPECIFICATION

Parameters		Specification	
Main Unit	Accuracy	$\pm 1\%$ of Reading	
	Velocity	± 0.03 to ± 100 ft/s (± 0.01 to ± 30 m/s)	
	Repeatability	0.2%	
	Measurement Period	0.5 Seconds	
	Measurement Principle	Transit-time measurement principle	
	Display	LCD with backlight 2 x 20 letters	
	Output	100F1 Modbus RS485 4-20 mA, Pulse 100M Modbus RS485 4-20 mA, Pulse	
	Input	100H None	
	Other functions		Two channels three wire system PT100 platinum resistor input loop. For BTv process monitoring Automatically stores the memory of the positive, negative, net totalizer flow rate and heat quantity of the last 512 days, 128 months, 10 years
	Power	100F1 85 to 264 VAC or 8 to 36 VDC 100M 8 to 36 VDC 100H Rechargeable nickel metal hydride battery	
Power Consumption		Less than 1.5W	
Environment Temperature		-22 °F to 176 °F (-30 °C to 80 °C)	
Environment Humidity		85% RH	
Protection Class		IP65 (Tek-Clamp 1200A-100F1) IP57 (Tek-Clamp 1200A-100M and 1200A-100H)	
Transducers	Clamp-On	S2-type: for pipe size $\frac{1}{2}$ "- 4" (DN0.04-DN0.33 ft) M2-type: for pipe size 2"- 28" (DN0.16-DN2.33 ft) HS-type: for pipe size $\frac{1}{2}$ "- 4" (DN0.04-DN0.33 ft) HM-type: for pipe size 2"- 28" (DN0.16-DN2.33 ft)	
	Protection Class	IP68, can work in water with depths less than 10' (3 m)	
Liquids	Types	Virtually all commonly used clean liquids. Liquids with small quantity of tiny particles may also be applicable. Particle size should be less than 75 μ m, particle concentration less than 20,000 ppm. Liquids should contain no or very minor air bubbles.	
	Process Temperature	-40 °F to 320 °F (-40 °C to 160 °C)	
Pipe	Pipe Material	All metals, most plastics, fiber glass, etc.	
	Pipe Size	$\frac{1}{2}$ " - 28" (DN 0.04 ft-2.33 ft)	
	Pipe Straight Run	More than 10 D for upstream, more than 5 D for downstream, 30 D if a pump is near upstream, where D is pipe diameter.	