



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
		Two channels three wire system PT100 platinum resistor input loop. For BTv process monitoring
	Other functions	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	
Transducers	Protection Class	IP65 (Tek-Clamp 1200A-100F1) IP57 (Tek-Clamp 1200A-100M and 1200A-100H)
	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)
	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.
Liquids	Process Temperature	-40 °F to 320 °F (-40 °C to 160 °C)
	Pipe Material	All metals, most plastics, fiber glass, etc.
Pipe	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.