



FLOW



Technology Solutions

Ultrasonic Clamp-On Flow Meter

Tek-Clamp1200-100EXP



1 FEATURES

- Better than $\pm 1.0\%$ accuracy.
- Pipe diameters from $\frac{1}{2}$ " to 200".
- Protection class: IP65
- UL Class I Div II approved.
- Power Supply DC 8-36 VDC.
- LCD 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 2 x 20 letters
	Output		Modbus RS485 4-20 mA, Pulse
	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		8 to 36 VDC
	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 IP68, can work in water with depths less than 10' (3 m)
Approvals		UL Class I Div II	
Transducers	Clamp-On		S2-type: for pipe size $\frac{1}{2}$ " to 4" M2-type: for pipe size 2" to 28" L2-type: for pipe size $\frac{1}{2}$ " to 200"
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		$\frac{1}{2}$ " to 200"
	Pipe Straight Run		More than 10D for upstream, more than 5D for downstream