



FLOW



Technology Solutions

# Ultrasonic Clamp-On Flowmeter

## 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

### 2 SPECIFICATION

Parameters		Specification	
Main Unit	Accuracy	Better than $\pm 1.0\%$	
	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
		100H	None
	Input	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		
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 um, 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.	