



FLOW

# Handheld Ultrasonic Flow Meter

## Tek-Clamp 1200A-100H



Technology Solutions



### 1 FEATURES

- Better than  $\pm 1.0\%$  accuracy.
- Pipe diameters from 1" to 28".
- Protection class: IP67 for Flow Transducer.
- 4x4 Key Touch Membrane Keypad.
- 3 AAA built-in Ni-MH batteries 1.2V (for over 12 hours of operation). 90V-260V AC Adapter.
- 4x16-character LCD with backlight.

### 3 APPLICATIONS

- Power plants
- Water and Wastewater treatment plants
- Mining and Metallurgy plants
- Petroleum process monitoring and control
- Chemical process monitoring and control

### CONTACT US



### 2 SPECIFICATION

| Parameters  |                         | Specification                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main Unit   | Accuracy                | $\pm 1\%$ of reading at rates $>0.2$ mps                                                                                                                                                                                                                                                                                                                                                                                   |
|             | Velocity                | 0.03 to 100ft/sec                                                                                                                                                                                                                                                                                                                                                                                                          |
|             | Repeatability           | 0.2%                                                                                                                                                                                                                                                                                                                                                                                                                       |
|             | Measurement Period      | 0-999 seconds, user-configurable                                                                                                                                                                                                                                                                                                                                                                                           |
|             | Measurement Principle   | Transit Time Ultrasonic Flow Meter                                                                                                                                                                                                                                                                                                                                                                                         |
|             | Weight                  | Portable transmitter weight 514g<br>Package with accessories weight 6kg<br>Volume weight for whole package 12kg                                                                                                                                                                                                                                                                                                            |
|             | Power                   | 100H<br>3 AAA built-in Ni-MH batteries 1.2V (for over 12 hours of operation)<br>90V-260V AC adapter                                                                                                                                                                                                                                                                                                                        |
|             | Power Consumption       | 1.5W                                                                                                                                                                                                                                                                                                                                                                                                                       |
|             | Environment Temperature | Converter: $-4^{\circ}\text{F}$ to $140^{\circ}\text{F}$ ( $-20$ to $60^{\circ}\text{C}$ )<br>Flow Transducer: $-22^{\circ}\text{F}$ to $320^{\circ}\text{F}$ ( $-30$ to $160^{\circ}\text{C}$ )                                                                                                                                                                                                                           |
|             | Environment Humidity    | Converter: 85% RH                                                                                                                                                                                                                                                                                                                                                                                                          |
| Transducers | Protection Class        | Flow Transducer: IP67                                                                                                                                                                                                                                                                                                                                                                                                      |
|             | Clamp-On                | HS-type: for pipe size $\frac{1}{2}$ " - 4" (12.5mm - 100 mm)<br>HM-type: for pipe size 2" - 28" (50mm - 700 mm)<br>Other pipe size available on request                                                                                                                                                                                                                                                                   |
| Liquids     | Types                   | Following Liquids transmit sound wave: <ul style="list-style-type: none"><li>• Single liquid such as, Water (Hot water, Chilled water, City Water, Sea Water, Wastewater, etc.)</li><li>• Sewage with small particle content</li><li>• Oil (crude oil, lubricating oil, diesel oil, fuel oil, etc.)</li><li>• Chemicals (alcohol, etc.)</li><li>• Plant Effluent</li><li>• Beverage</li><li>• Ultra-pure liquids</li></ul> |
|             | Process Temperature     | $-22^{\circ}\text{F}$ to $320^{\circ}\text{F}$ ( $-30^{\circ}\text{C}$ to $160^{\circ}\text{C}$ )                                                                                                                                                                                                                                                                                                                          |
| Pipe        | Pipe Material           | Steel, Stainless Steel, Cast Iron, Copper, Cement Pipe, PVC, Aluminum, Glass Steel Product, Liner is allowed                                                                                                                                                                                                                                                                                                               |
|             | Pipe Size               | 1/2" to 28"                                                                                                                                                                                                                                                                                                                                                                                                                |
|             | Pipe Straight Run       | Transducer installation should be satisfied: upstream 10D, downstream 5D, 30D from the pump                                                                                                                                                                                                                                                                                                                                |
|             | Dimensions              | 8"X 3 3/4" X 1 1/4" (200 X 93 X 32mm) (Converter)                                                                                                                                                                                                                                                                                                                                                                          |

Flow | Level | Temperature | Pressure | Valves | Analyzers | Accessories | TekValSys

1.888.610.7664



www.calcert.com

sales@calcert.com