Ultrasonic Flowmeter P118i

High Accuracy Portable Flow Meter

Designed for quick, non-intrusive liquid flow checks using clamp-on transducers and sensor magnetic rails.

Product Overview

The Hydro-Air P118i High Accuracy Ultrasonic Portable Flow Meter offers precise liquid measurement with clamp-on transducers and sensor magnetic rails. The portable device enables reliable readings and easy installation for a variety of applications. Ideal for quick, non-intrusive measurement, it combines advanced ultrasonic technology with field convenience to support accurate and efficient liquid flow monitoring.

Key Features

Clamp-on measurement

Non-intrusive flow measurement with external transducers.

Wide pipe range

1" ~ 200" (25mm~ 5000mm).

High accuracy

± 0.5% of measured value.

Portable operation

Rechargeable lithium battery, 10-hour main battery operation.

Protected transducer

Encapsulated design, IP68.

Signal outputs

4 ~ 20 mA, pulse output, and relay output.

APPLICATIONS

Water | Seawater | Low-particle sewage | Water plants | Sewage treatment plants | Plant irrigation | Cooling water | Energy-saving monitoring | Water-saving management

Hydro-Air
Process Instruments

Technical Specifications

Complete technical specifications for Hydro-Air P118i portable ultrasonic flow measurement.

ACCURACY	PIPE SIZE	POWER
± 0.5%	1" ~ 200"	10 hours

Specification Matrix	Hydro-Air P118i Portable Ultrasonic Flow Meter
Flow Velocity	± (0.03 ~ 40) ft/s, ± (0.01 ~ 12) m/s
Pipe Size	1" ~ 200" (25mm~ 5000mm)
Accuracy	± 0.5% of measured value 1.5 ft/s ~ 40 ft/s or -1.5 ft/s ~ -40 ft/s (0.5 m/s ~ 12 m/s or -0.5 m/s ~ -12 m/s)
Repeatability	0.1%
Application	Water, sewage (with low particle content) and seawater, water plant, sewage treatment plants, plant irrigation, cooling water, energy-saving monitoring, water-saving management....
Pipe Material	Carbon Steel, Stainless Steel, PVC, Cast Iron, Ductile Iron, Copper, Aluminum, Asbestos, Fiber Glass-Epoxy
I/O	Analog output: 4 ~ 20 mA, (max load 750 Ω) Pulse output: 0 ~ 9999 Hz, OCT (min. and max. frequency is adjustable) Relay output: max. frequency 1Hz (1A@125VAC or 2A@30VDC)
Power Supply	Rechargeable Lithium Battery Power (continuous operation of main battery 10 hours)
Temperature	Transmitter: 14°F to 122°F (-10°C~50°C) Transducer(P010): -40°F to 176°F (-40°C~80°C, standard) Transducer(PH020): -40°F~302°F (-40°C~150°C)
Transmitter	NEMA13 (IP54)
Transducer	Encapsulated design, IP68
Transducer Cable	Standard cable length: 5m

Output / Communication	Analog 4 ~ 20 mA | Pulse 0 ~ 9999 Hz OCT | Relay max. 1Hz