

Compu-Flow™

Doppler Ultrasonic Clamp-On Flow Meter

The Compu-Flow™ Ultrasonic Clamp-on Doppler Ultrasonic Flow Meter is engineered with industry-leading features and smart technology to deliver uncompromised flow measurement solutions for today's demanding industries.



Compu-Flow™ introduces the technologically advanced industrial-grade doppler ultrasonic clamp-on flow meter for superior flow measurement. The Compu-Flow™ model C6. The revolutionary new and enhanced hardware and software design results in a low-profile, high performance flow meter that delivers precise flow readings due to its advanced proprietary microprocessing technology. Compu-Flow™ introduces the industries most powerful Doppler clamp-on flow meter.

The Compu-Flow™ Doppler Ultrasonic Flow Meter measures flow velocity by sensing signals from reflective materials suspended within a liquid flowing in the pipe with the sensors mounted on the pipes outer surface

An example of this Doppler Effect is similar to a train whistle – increasing in pitch as the train approaches, and decreasing in pitch as the train moves away. To the person riding on the train the pitch remains the same. The increasing pitch is due to phase-front compression and the decreasing pitch is due to phase-front expansion. The Doppler flow meter uses this effect to measure the velocity of a liquid through a pipe wall.

The Compu-Flow™ Doppler is truly Flow Smart.

Features

- Field Ready, Quick Setup, User Friendly Keypad Interface.
- No pipe section or spool piece is required to install the meter.
- The meter is not affected by changes in temperature, viscosity, specific gravity, or the speed of sound within the liquid.
- Zero Corrosion Factor. All exposed materials are Stainless Steel, PVC or Polycarbonate.
- Wide range of temperature applications: -30 to 90 deg C – up to 250 deg C with special fittings.
- The transducers are normally coupled to the outer pipe wall with grease, sonic gel, or epoxy.
- AC or DC operation, solar or battery power.
- Non- invasive, Submersible, Clamp-on transducers.
- Signal cable lengths up to 1500 m (5000 ft).
- High accuracy even in turbulent flows. NIST Certified to > 0.5%.
- Wide pipe diameter range 26 mm (1.00 inch) – 9999 mm (999 inches).
- All pipe materials Including – PVC, HDPE, Plastic, Steel & Stainless Steel, Iron, Rubber, Concrete, and Copper.

Package Includes:

Fixed:

- NEMA 4X Display IP65
- Transducer & 25' cable
- Power Supply
- Sensor Coupling Hardware
- Quick Start Guide
- USB Flash Drive / User Manual

Portable:

- All of the above plus:
- 12V 1.0AH AGM Battery
- 90/240 VAC/12VDC@ 1.0A Smart Charger
- Auxiliary Handle
- Field Transport Case
- Quick Connect Flow Sensor Port



Specifications:

Display:

NEMA – 4X Hinged IP65
Temp: (+4°F to +140°F)

Dimensions:

7 x 5 x 3 inches

Totalizer:

12 Digit LCD
Memory Backup 99 yrs +

Rate Meter:

4 Digit LCD Digital Bar Graph

Memory:

Nonvolatile 99 yrs + all parameter inputs

Power:

Isolated-Regulated-Module
100-240 VAC / 1.0A @12VDC

LED Indicators: (Receiver)

Green – Power Yellow – Echo
Red – Hi/Low Alarm

Outputs:

Digital Pulse Train (0-12V)
4-20mA (MAX z1200 ohm)
RS232 via DB9 Port
Hi-Low Limit Alarms * Batch Control *
* (12VDC @50mA)

Transducers:

Power: 12VDC- @ 0.5 watt/ 40mA
Submersible 200' Max
Potted IP68 Non- Metallic
Temp (-70°F to +185°F)
500°F - Heat Sink Option

Cable Length:

25 ft. standard
1 to 5000 ft. (optional)

Flow Range:

FPS: 0-50 fps/ 15 mps
Resolution .1 fps, 0.03 mps

Pipe ID Range:

0 – 999.9 inches
0 – 9999 mm

Accuracy:

1% (function of flow profile)

Linearity:

+/- 0.5%

Repeatability:

+/- 0.1%

Options:

Wireless Signal 900 mHz
Data Logger 1- 32 GB
Flash Drive Internal or Remote
Custom Cable Lengths

Weight:

4 lbs. - Fixed System
8 lbs. - Portable System

Engineering Units:

English & Metric

Languages:

- English

Part Number:

C6PM (Portable)
C6FM (Fixed)

Warranty:

2-Year Limited Warranty

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