



# BFU-100H

## Portable Ultrasonic Flow Meter



# Technical Data Sheet

# BFU-100H

The BFU-100H is a Portable ultrasonic Flow Meter using the latest transducer technology and signal processing techniques for improved measurement and reliably high accuracy.

The BFU-100H can display instantaneous fluid flow rates or velocity, together with 4 different totalised values and is capable of transmitting a signal to an external logger or BMS using Pulse and 4-20mA Signals. The unit also has pre-configurable alarm characteristics which can actuate an output and sound a buzzer eg. Low flow, reverse flow etc.

The BFU-100H has internal NVRAM memory storage allowing for logging and retrieval of daily, monthly, yearly totals as well as site specific "set-up" data storage. Meaning that previous site characteristics can be recalled instantly ensuring rapid start-up. Ultrasonic flow meters are now widely used in the industrial and building sectors for monitoring water systems and energy efficiency monitoring. Their simplicity and reliability has seen their widespread adoption throughout the world as an accurate and reliable method of quantifying pipe flow rates and volume consumption.

These flow meters can be used on virtually any pipe size or material, are non-invasive and therefore not prone to the levels of deterioration that are seen by intrusive flow meters. They do not impose a pressure drop in the system and do not require specialist skills to fit and operate.



Accuracy	<1% of reading above 0.6ft/sec / 0.2 m/sec
Repeatability	0.2% fixed installation
Pipe Size	25 - 6000mm (dependant on transducers chosen)
Response Time	0-999 User configurable
Transducers	Rail Mount type 0°C to +160°C (Magnetic type: 0°C to +70°C)
Instrument	-10°C to 70°C External Environment
Data-logging	The totaliser data from the last 64 days / 64 months / 5 years;
Output	1x RS232 / 1x Pulse / Alarm / Frequency Output [OCT]
Power	Rechargeable Ni-MH Battery (12 hours continuous operation)
Dimensions	100 x 65 x 20 mm
Weight (Control Unit)	1.2lbs (514g)
Security	PIN code lockout facility optional



Guide rails



Sensor cables



# HAND HELD ULTRASONIC FLOW METER

A B C D E F G H I

**BFU-100H** □ — □ — □ — □ — □ — □ — □ — □ — □

Letter	Parameter	Option
A	Main board version	Version 8
B	Standard transducer	BHM-type Clamp-on transducers for medium pipe
C	Optional transducer	BHS-type Clamp-on transducers for medium pipe
D		BS1-type Clamp-on transducers for small pipe
E		BM1-type Clamp-on transducers for small pipe
F		BL1-type Clamp-on transducers for small pipe
G		BS1H-type Clamp-on high temperature transducers for small pipe
H		BS1H-type Clamp-on high temperature transducers for small pipe
I	Cable length	(standard 5 metre)

For Example: BFU-100H 8-BS1+BM1+BL1-5

Note: BS1+BM1+BL1 transducer, with max cable length 5 metres

## CASE CONTENTS

- BFU-100H Battery Powered instrument with backlit Alpha/numeric display
- Power supply - 110/240VAC
- Transducer cables with push connect fittings (x2) 5 metres long
- Transducer sets as selected BHS (DN25 – 100mm) and BHM (DN500-700)
- Set of guide rails and chains for use with chosen transducers
- 4-20mA / Pulse/Alarm output cable
- Ultrasonic Coupling gel
- Manual

