



Special characteristics

- Self-adapting signal receiving technology requiring no manual adjustment
- High-resolution time measurement down to 100 picoseconds for precise flow calculation
- Built-in rechargeable Ni-MH battery supporting over 12 hours of continuous operation

Features

- Accuracy up to $\pm 0.5\%$ with $\pm 0.2\%$ repeatability
- Clamp-on, non-intrusive installation with no pressure loss or pipe cutting
- Fast totalizing period of 0.5 seconds for dynamic flow monitoring
- Designed for pipe diameters from 20 to 6000 mm (0.5–200 inch)

Measuring principle

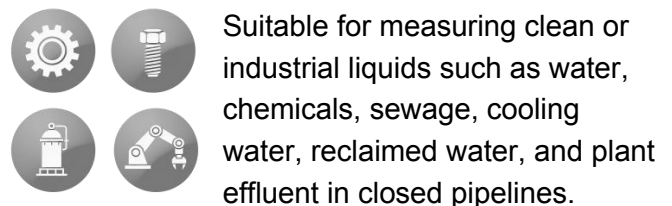
The FK-2100H ultrasonic flow meter uses the transit-time principle with clamp-on transducers to transmit and receive ultrasonic signals along and against the flow. Flow velocity is calculated from the time difference between upstream and downstream signals without pipe cutting or fluid contact.



The FK-2100H is a high-performance clamp-on ultrasonic flow meter designed for accurate and stable liquid flow measurement in closed pipelines.

It features patented multi-pulse ultrasonic technology, strong anti-interference capability, and a bilingual user interface, enabling reliable operation in demanding industrial environments with easy installation and minimal maintenance.

Preferred areas of use are



Material and test

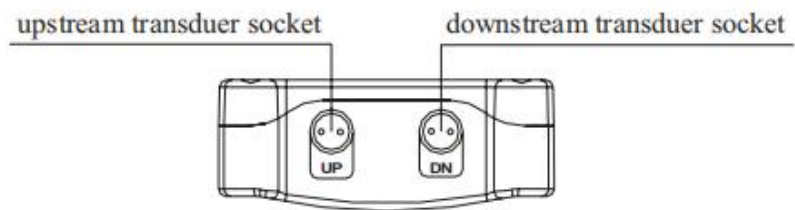


Parameters

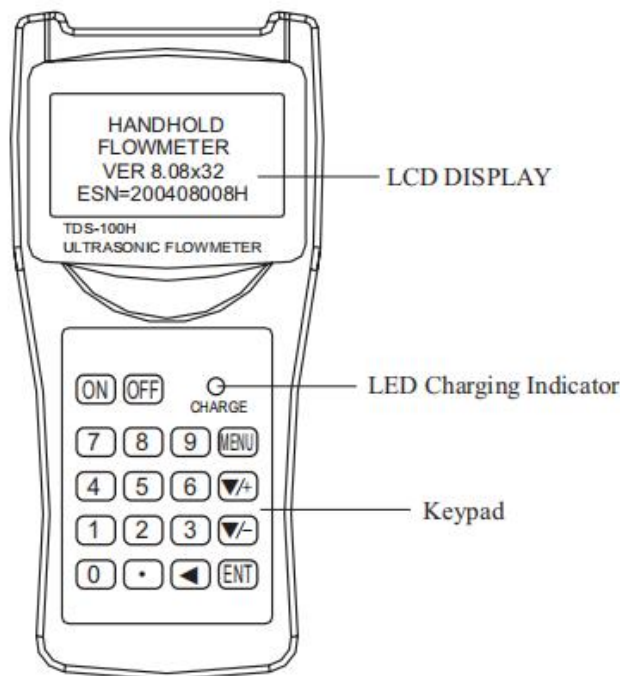
Linearity	0.5%
Repeatability	0.2%
Accuracy	± 1% of reading at rates>0.2 mps
Response Time	0.999 seconds, user.configurable
Velocity	± 32 m/s
Pipe Size	20mm.6000mm
Liquid Types	Virtually all liquids
Communication Interface	RS-232C, baud.rate: from 75 to 57600. Protocol made by the manufacturer and compatible with that of the FUJI ultrasonic flow meter. User protocols can be made on enquiry.
Transducers	Model M2 for standard, other 4 models for optional
Transducer Cord Length	Standard 2x5 meters, optional 2x10 meters/2x15 meters
Power Supply	3 AAA Ni.H built.in batteries. when fully recharged it will last over 10 hours of operation. 100V.240VAC for the charger
Data Logger	Built.in data logger can store over 2000 lines of data
Manual Totalizer	7-digit press-key-to-go totalizer for calibration
Housing Material	ABS
Case Size	100x66x20mm
Handset weight	514g (1.2 lbs) with batteries

■ Parts Identification

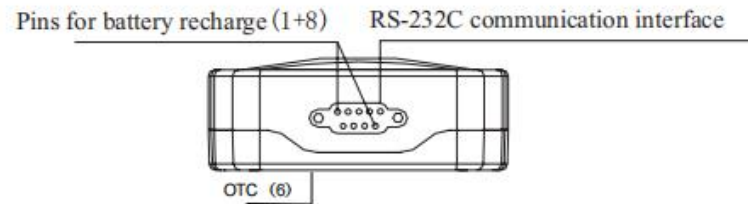
Top view



Front view

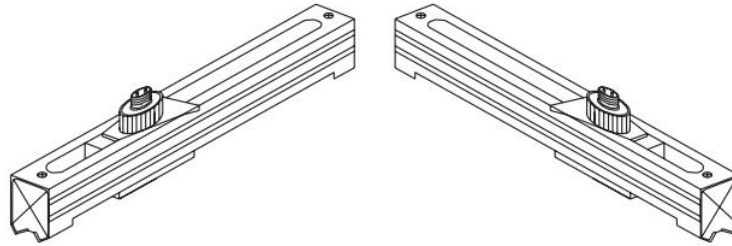


Bottom view

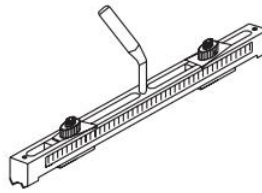


Transducers:

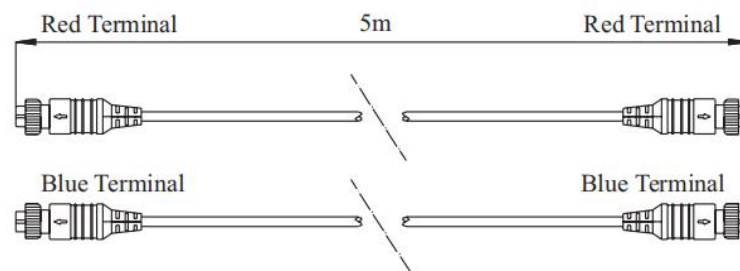
Standard-HM (50mm-700mm)



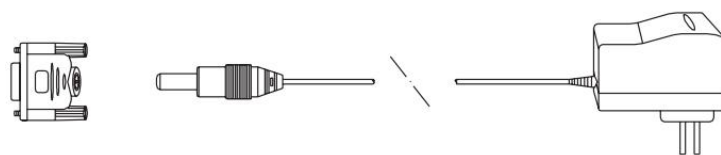
Standard-HS (20mm-100mm)
(Optional Accessories)



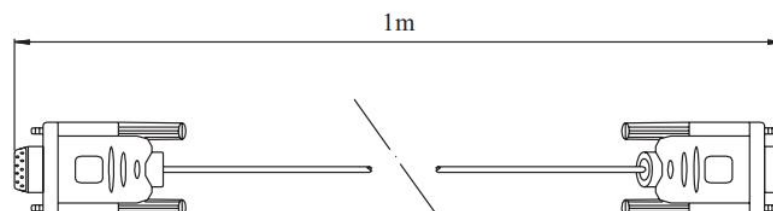
Cable 5m x2



Converted Terminal and AC/DC Adapter



Cable of RS-232C interface



■ Ordering Code

FK-2100H-W1-T7-L-AQ-1-05-PG											Description
2100H	-	-	-	-	-	-	-	-	-	-	Handheld ultrasonic flowmeter
Sensor type	W1										Small external clamp-on (DN32-DN100)
	W3										Medium external clamp-on (DN50-DN700)
	W4										Large external clamp-on type (DN300-DN1200)
	Z1										Small bracket type (DN20-DN100)
	Z2										Medium bracket type (DN50-DN300)
	Z3										Extended bracket type (DN300-DN700)
	XX										Others
Heat resistance temperature	T7										-30-90℃
	T8										-30-160℃
Accuracy		L									Class 1.0
Output and power supply			AQ								RS232, 3.6 V rechargeable battery
Shell material and protection level				1							ABS plastic, IP65
				2							ABS plastic, IP68
Cable length					05						5m
					10						10m
					15						15m
					XX						Others
Additional features (optional)											
Accessories						PG					Coupling agent 120g