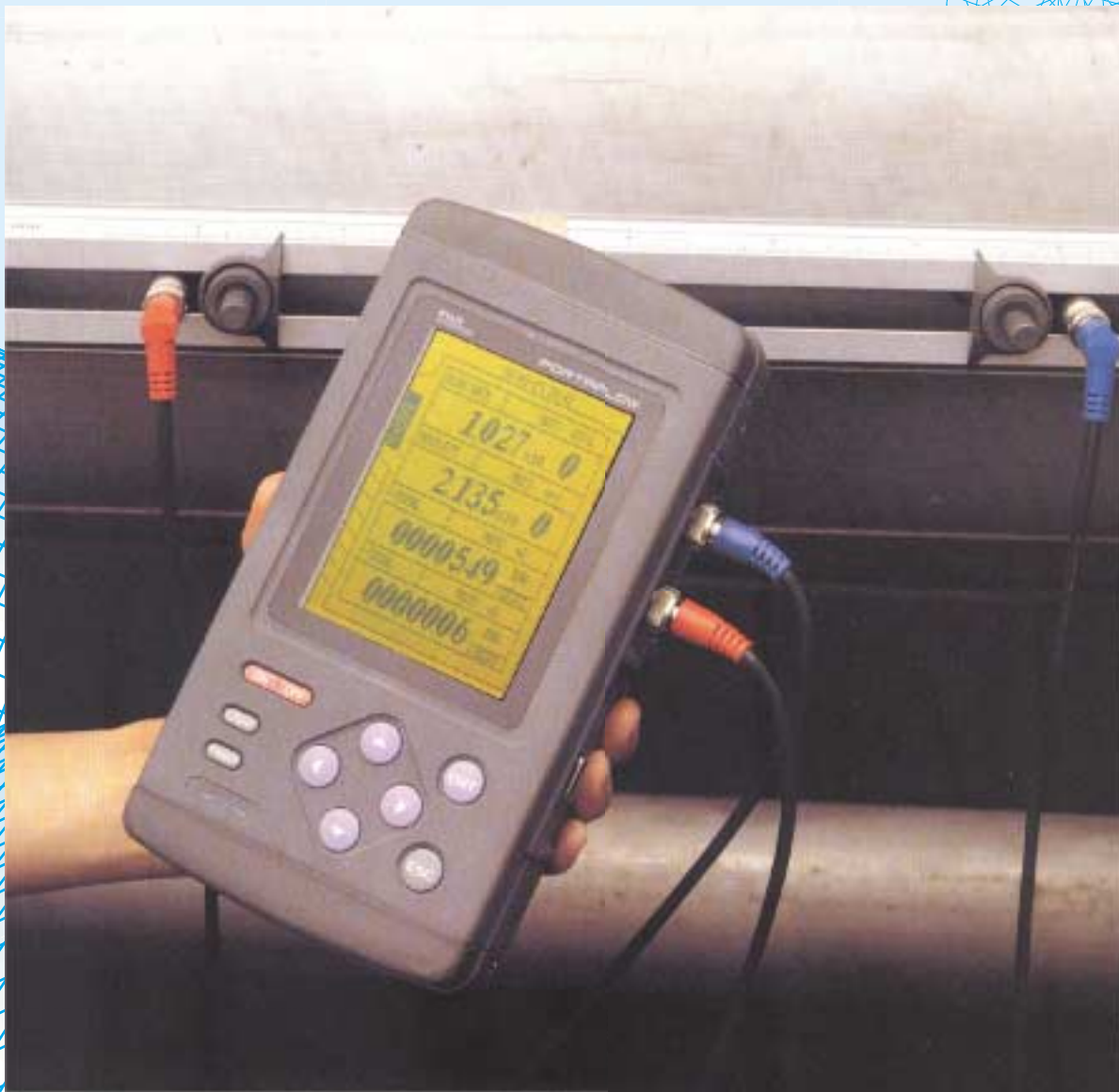


ULTRASONIC FUJI PORTABLE FLOWMETER "PORTAFLOW X"

Flow rate, flow velocity and integrated value are simultaneously indicated on the display window of main unit through the sensor mounted on the outside of pipe.

The portable main unit is only 1.5kg in weight and measures for 5 hours continuously on a built-in re-chargeable battery with no re-charge.



Instruments for the location of underground utilities and water leaks.

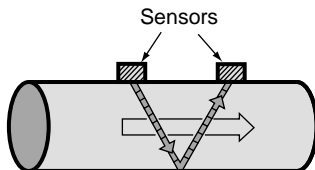
FUJI TECOM INC.

FUJI PORTABLE FLOWMETER

“PORTAFLOW X”

Principle

Ultrasonic pulses are propagated from upstream and downstream sensors mounted on the outside of pipe.
Time difference due to flow is detected to measure flow rate.



Features

- Large-size graphic LCD.
- Data logging function incorporated (20 points, 40000 data).
- Personal computer interface : RS232C.
- Easily mountable sensor.
- Graphic printer (Optional).
- Compact design for the best portability.

Standard equipment

- Main unit.
- A.C. power adaptor.
- Standard sensor.
- Carrying case.

Optional accessories

- Printer.
- Large sensor.
- Sensor for small pipe-diameter.
- High temperature sensor.
- Pipe thickness gauge.
- D.C. power adaptor.

Specifications

• Fluid specification

Uniform quality liquid which can be penetrated by an ultrasonic wave (service water, sewerage, industrial water, agricultural water, sea water, pure water, oil, etc.) and can meet the following requirements :
Turbidity : 10000 [mg / l] or less
Flow : Linear full pipe
Temperature : -40 to + 200°C
Flow velocity : 0 to ± 0.3 to ± 32 m/s

• Pipe specification

Material : Steel, stainless steel, cast iron, PVC, FRP, asbestos, copper, aluminum, acrylic, conforming to the standards.
Diameter : 13 to 6000mm (nominal)
Standard sensor for 50mm to 400mm
Large sensor for 200mm to 6000mm
Sensor for small pipe-diameter for 13mm to 100mm
Lining : Tar epoxy, mortar or rubber
Length of straight section : 10D or more on upstream side, 5D or more on downstream side
(D representing a pipe diameter)

• Measuring accuracy (under standard conditions)

Pipe diameter	Accuracy
13 to 50mm	: $\pm 1.5\%$ of rate at 2m/s or more, ± 0.03 m/s at less than 2m/s
50 to 300mm	: $\pm 1.0\%$ of rate at 2m/s or more, ± 0.02 m/s at less than 2m/s
300mm or more	: $\pm 1.0\%$ of rate at 1m/s or more, ± 0.01 m/s at less than 1m/s

- Data logging : capable of storing 40000 data in internal memory

• Main unit

Power : Built-in battery (Nickel cadmium battery allowing continuous 5-hour measurement)
Recharging time : 2 hours (using the furnished A.C. power adaptor)
Power consumption : 12W
Weight : Approx. 1.5kg (without printer),
Approx. 2.0kg (with printer)
Outside dimensions : 240 (H) \times 127 (W) \times 70 (D)mm
(without printer)
359 (H) \times 127 (W) \times 70 (D)mm
(with printer)
Ambient conditions : Temperature ; -10 to + 55°C
(without printer)
- 10 to + 45°C (with printer),
Humidity ; 90% RH max.
Operation and display panel : Key pad ; 10 keys, liquid crystal ;
320 \times 240-dot graphic display
(with back light)
Communication interface : RS-232C (non-isolated)
Analog output : 4 to 20mA DC (max. load : 1k)
Analog input : 4 to 20mA DC (non-isolated)

• Standard sensor

Weight : Approx. 0.8kg
Outside dimensions : 540 (H) \times 53 (W) \times 90 (D)mm
Material : Aluminum supporter and plastic case
Ambient conditions : Temperature ; -20 to + 60°C
Humidity ; 90% RH max.

- A.C. power adaptor
Input : 90 to 264V AC

We reserve the right to change specifications without prior notice.



Instruments for the location of underground utilities and water leaks.

FUJI TECOM INC.

Head office : 1-3-1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 101-0024, Japan
TEL : +81-3-3862-3196 FAX : +81-3-3866-1979
Web Site : <http://www.fujitecom.co.jp/>
E-Mail : kaigai@fujitecom.co.jp

Branch office : Sapporo, Sendai, Tokyo, Shinetsu, Nagoya, Osaka
Hiroshima, Kyushu

Technical development & training center : Niiza

AGENT