Transit Time Ultrasonic Flow Meter for Clean Liquids

TRODEKS®

FDT7025 shown actual size.

FDT7000 Series

1 YEAR WARRANTY CE

✔ **LCD Display**
✔ **4 to 20 mA Output [50 mm (2") Size and Smaller Only]**
✔ **RS485 Communications (Modbus®)**
✔ **For Most Clean Liquids**
✔ **Rate and Total**
✔ **Enclosure NEMA 3 (IP54)**
✔ **Easy Installation**

FDT7000 Series ultrasonic flow meter is known for easy installation with its snap-clamp on pipe transducer body sensors do not come in contact with the internal liquid. The technology has inherent advantages over alternate ultrasonic devices including: low-cost, easy installation, no pressure head loss, no moving parts to maintain or replace, no fluid compatibility issue, and a wide measuring range that ensures reliable readings from 0.3 to 19 feet/sec (0.1 to 6.0 m/sec). The series is designed to work on PVC, PP and UPVC pipe systems.

The flow meter is equipped with a ground referenced 4 to 20 mA output—the output shares a common ground with the power supply. The output transmits a continuous current output that is proportional to liquid flow rate. The output was scaled at the factory to ensure that the instrument or data acquisition system that is receiving the 4 to 20 mA signal responds properly, it must be spanned identically to the flow.

The 4 to 20 mA output is designed to source current across a loop resistance that is typically located within a data acquisition system or other receiving instrument. The maximum resistance that the flow can accommodate is directly related to the DC power source that is powering the flow meter and the 4 to 20 mA loop.

Specifications

Flow Range: 0.3 to 19 ft/s (0.1 to 6 m/s)
Accuracy: ±1.5% FS
Repeatability: 0.3%
Measuring Liquid: Clean water based
Pipe Material: PVC-U/PP-R
Protection Rate: NEMA 3 (IP54)
Power Supply: 10 to 36 Vdc, at 500 mA maximum
Output: 4 to 20 mA (zero to full scale) [50 mm (2") size and smaller only)
Communications: RS485 (Modbus)
Temperature Range:
   Transmitter/Transducer: 0 to 50ºC (32 to 122ºF)
Humidity: Up to 99% RH non-condensing
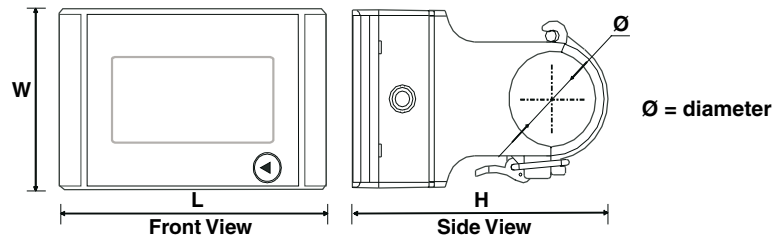**Transmitter:** ABS plastic enclosure
Power Supply Cable: 3 m (9.8') standard
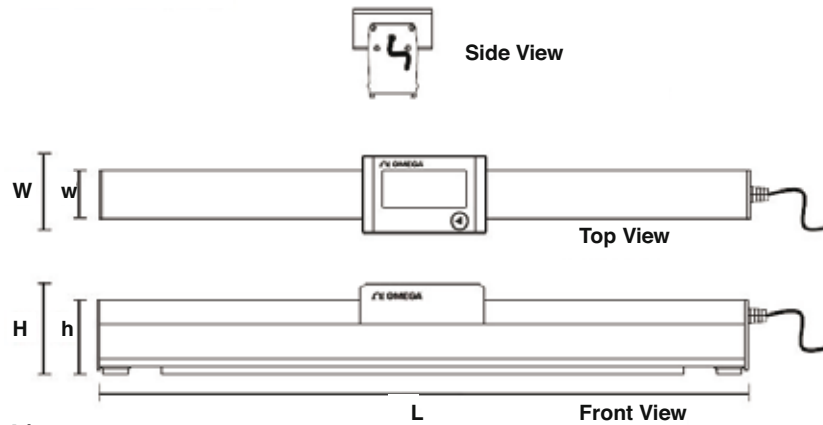**Display:** LCD display
Weight: 0.5 kg (1.10 lb)

FDT7025 back view.

Ø = diameter

Front View Side View

Dimensions: mm (inch)

Model No.	DIN Size	Pipe OD Ø	Pipe ID	L	W	H
FDT7015	15	20 (0.75)	13.8 to 17 (½)	100 (4)	63 (2.5)	88 (3.5)
FDT7020	20	25 (1)	18.8 to 22 (¾)	100 (4)	63 (2.5)	93 (3.6)
FDT7025	25	32 (1.25)	24.2 to 29 (1)	100 (4)	63 (2.5)	100 (4)
FDT7032	32	40 (1.5)	31 to 37 (1¼)	134 (5.3)	63 (2.5)	108 (4.3)
FDT7040	40	50 (2)	38 to 47 (1½)	134 (5.3)	63 (2.5)	118 (4.6)
FDT7050	50	63 (2.5)	48.5 to 59 (2)	134 (5.3)	63 (2.5)	131 (5.6)

Side View

Top View

Front View

Dimensions: mm (inch)

Model No.	W	w	H	h	L
FDT7065 to FDT7200	63 (2.5)	40 (1.5)	72 (2.8)	60 (2.4)	335 (13.2)
FDT7250 to FDT7300	63 (2.5)	40 (1.5)	72 (2.8)	60 (2.4)	525 (21)

To Order

Model No.	Pipe ID DIN (inch)	Description	Flow Range GPM (LPM)
FDT7015	15 (½)	Snap-on transit-time ultrasonic flow meter	0.1 to 11.6 (0.4 to 40)
FDT7020	20 (¾)	Snap-on transit-time ultrasonic flow meter	0.3 to 26.2 (1 to 100)
FDT7025	25 (1)	Snap-on transit-time ultrasonic flow meter	0.5 to 46.6 (1.75 to 175)
FDT7032	32 (1¼)	Snap-on transit-time ultrasonic flow meter	0.7 to 73 (2.75 to 275)
FDT7040	40 (1½)	Snap-on transit-time ultrasonic flow meter	1 to 105 (4 to 400)
FDT7050	50 (2)	Snap-on transit-time ultrasonic flow meter	2 to 186 (7 to 700)
FDT7065	65 (2½)	V-Track transit-time ultrasonic flow meter	3 to 291 (11 to 1100)
FDT7080	80 (3)	V-Track transit-time ultrasonic flow meter	4 to 419 (15.8 to 1580)
FDT7100	100 (4)	V-Track transit-time ultrasonic flow meter	8 to 745 (28 to 2800)
FDT7150	150 (6)	V-Track transit-time ultrasonic flow meter	17 to 1676 (63 to 6300)
FDT7200	200 (8)	V-Track transit-time ultrasonic flow meter	30 to 2980 (112 to 11,200)
FDT7250	250 (10)	V-Track transit-time ultrasonic flow meter	47 to 4656 (175 to 17,500)
FDT7300	300 (12)	V-Track transit-time ultrasonic flow meter	67 to 6705 (254 to 25,400)

Comes complete with accoustic gel and operator's manual.