

Thermo Scientific DCT6088

Dedicated Transit Time Flowmeter

The Thermo Scientific™ DCT6088 dedicated transit time flowmeter employs a unique digital correlation technique to reliably measure the flow of clean liquids. Designed for use on pipes of all sizes, the non-intrusive device is easy to install, simple to operate, and eliminates pressure loss and leakage which reduces downtime and increases profit potential.



Features

- Accuracy to $\pm 0.5\%$ of velocity full scale
- 0.01 ft/sec flow sensitivity
- Up to 4 programmable relays
- Easy to install, clamp-on design
- Bi-directional flow measurement
- Powerful 30,000 point data logger

Flexible & Easy to Use

Combining digital signal processing (DSP) with correlation detection methods, the Thermo Scientific DCT6088 dedicated transit time flowmeter features exceptional performance and flexibility. It tolerates higher concentrations of gas bubbles or entrained solids compared to traditional transit time flowmeters which are principally designed for extremely clean liquid applications only. The non-intrusive, clamp-on transducers can be installed without flow interruption

and ensure leak-free measurements with zero pressure drop. The simple, menu-driven operation of the DCT6088 flowmeter allows the meter to be commissioned in a fraction of the time necessary for competitive transit time flowmeters.

Engineered for Maximum Uptime

Housed in a rugged IP65 enclosure and qualified for -40°C (-40°F) operation, the DCT6088 flowmeter is well-suited to most industrial environments. The high resolution,

backlit LCD provides excellent visibility even in poorly lit conditions. Outputs include a 12-bit digital, optically-isolated, 4-20 mA analog signal and RS232 serial interface.

Sample Applications

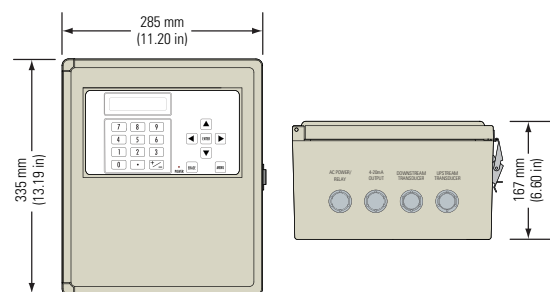
- HVAC
- Potable water
- Ultrapure liquid
- Deionized water
- Petroleum products
- Water and waste management



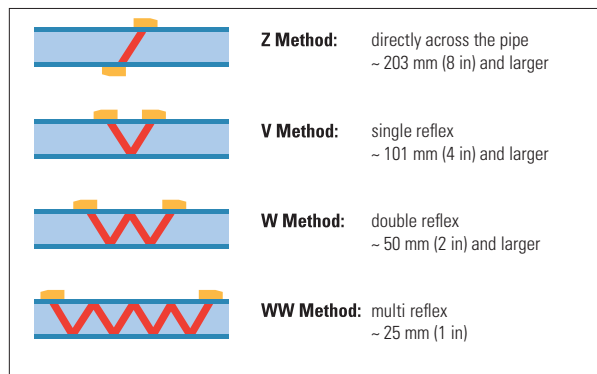
Specification

Performance Specifications	
Velocity Range	±0 m/s to 15 m/s (±0 m/s to 50 ft/s)
Accuracy	±0.5% of velocity or ±0.05 ft/sec typical
Fluids	Potable water, ultrapure liquids, deionized water, petroleum products
Pipe Size	25.4 mm to 5 m (1 in to 200 in); For line sizes smaller than 1 inch, consult Thermo Fisher Scientific
Physical Specifications	
Transmitter	P65, flame retardant, fiberglass reinforced polyester
Transducers	Two encapsulated transducers suitable for submersion or underground service; 9 m (30 ft) standard cable length
Weight	Approximately 5.4 kg (12 lbs)
Functional Specifications	
Outputs	4-20 mA (into 1k - 5k ohms), 12-bit, 5 kV, opto-isolated, loop or self-powered; RS232 serial interface
Power Supply	90-132 Vac or 190-250 Vac, 50/60 Hz (switch selectable); 12-24 Vdc
Temperature Range	Transducers: (surface) -40 °C to + 100 °C (-40 °F to + 212 °F); (ambient) -28 °C to + 80 °C (-20 °F to + 176 °F) Transmitters: -40 °C to + 60 °C (-40 °F to + 140 °F)
Keypad	19-key with tactile action
Display	2-line, 40-character, alphanumeric, backlit LCD indicating present and total flow, velocity and signal strength
Data Logger	30,000 point data logger; programmable in 1 second intervals

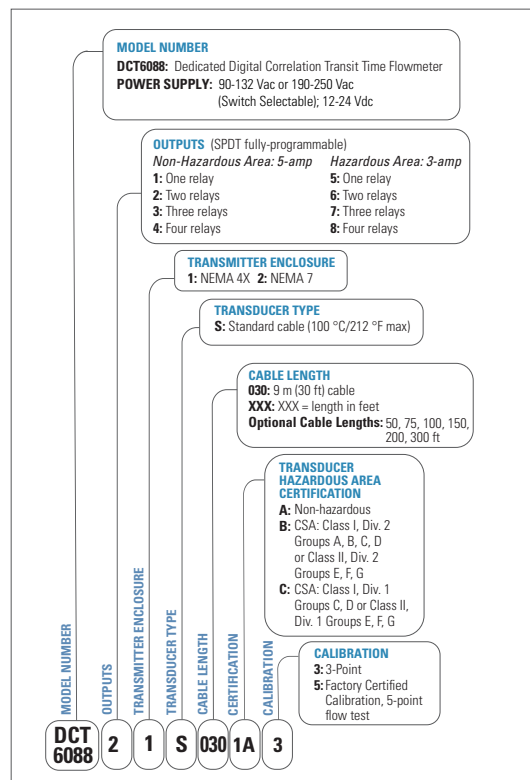
DCT6088 Dedicated Transit Time Flowmeter Dimensional Diagram



DCT6088 Dedicated Transit Time Flowmeter Mounting Methods



Ordering Information



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