Thermo Scientific DCT7088

Portable, Digital-Correlation, Transit-Time Flowmeter

The powerful Thermo Scientific DCT7088 portable, digital-correlation, transit-time flowmeter is the most durable meter of its kind. Housed in a virtually indestructible, waterproof carrying case, this user-friendly device features a 40,000-point data logger and a memory function that stores four sets of site parameters to simplify installation and ongoing operation.



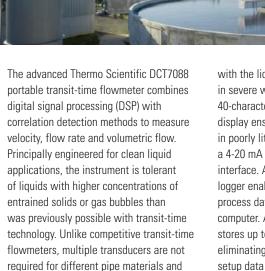
Features

- 40,000-point data logger
- Velocity range of ±0 to 40 ft/s (±0 to 12 m/s)
- · Bi-directional flow measurement
- Two-line, 40-character, high-resolution, backlit LCD
- RS232 digital communication interface
- Easy-to-install, clamp-on design
- Thermo Scientific UltraScan diagnostics and wave-form analysis software
- NEMA 6 environmental enclosure

Applications

- HVAC
- Ultrapure liquids
- Potable water
- De-ionized water
- · Petroleum products
- Water and wastewater management





Housed in a rugged NEMA 6 enclosure, the DCT7088 is waterproof against accidental immersion, is splash-proof

sizes. The standard transducer set is

suitable for most plastic, metal and even

1 inch (25 mm) to 200 inches (5 m). The

concrete-lined pipes that range in size from

non-intrusive, clamp-on transducers install

without flow interruption and ensure leak-

free measurements with zero pressure drop.

with the lid open and is built to operate in severe weather conditions. A two-line, 40-character, high resolution, backlit LCD display ensures excellent visibility even in poorly lit conditions. Outputs include a 4-20 mA analog signal and RS232 serial interface. A powerful 40,000-point data logger enables users to quickly upload process data to a laptop or personal computer. A separate memory function stores up to four sets of site parameters, eliminating the requirement to re-enter setup data when returning to a location for further measurements.

Simple menu-driven operation enables the DCT7088 to be configured in a fraction of the time necessary for competitive transit-time flowmeters, and it is programmable to start and finish flow measurements at predetermined times for unattended operation. The meter provides up to 16 hours of continuous battery operation and fully recharges in only 8 hours.

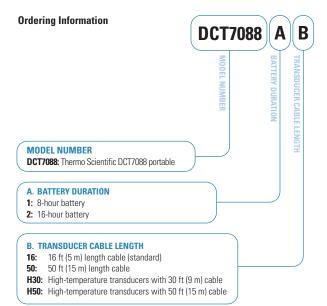


Thermo Scientific UltraScan Software

While the DCT7088 can be set up using its integral keypad, Thermo Scientific UltraScan configuration and signal analysis software simplifies the process by providing easy-to-use menus. In addition to configuration, this Microsoft® Windows®-based program provides access to the flowmeter's extensive waveform diagnostics, enabling users to easily determine the best location for transducer installation. With UltraScan, data can be downloaded to one or more instruments, eliminating the need to individually program multiple meters. It also enables paperless flow rate data archival, simplifying retention and reporting requirements for ISO 9000, OSHA and FDA compliance.

Thermo Scientific Ultrasonic Thickness Gauge

The Thermo Scientific Ultrasonic Thickness Gauge (UTG) is a compact, rugged device that enables DCT7088 users to determine the pipe wall thickness from the outside of the pipe. It can also be used to measure the corrosion or erosion of storage tank walls.



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Performance Specifications	
Velocity Range	±0 to 12 m/s (±0 to 40 ft/s)
Accuracy	±0.5% of velocity or ±0.03 m/s (±0.1 ft/sec)
Sensitivity	0.003 m/s (0.01 ft/sec) at any flow rate including zero
Pipe Size	25 mm to 5 m (1 in to 200 in)
Functional Specifications	
Outputs	4-20 mA (into 1K to 5K Ohms), isolated; RS232 serial interface
Power Supply	Built-in lead acid gel battery: 8-hour continuous operation — standard
	16-hour continuous operation – optional
	90-264 VAC, 50-60 Hz standard with AC adapter/battery charger
Keypad	19-key with tactile action
Display	40-character, two-line, alphanumeric, backlit LCD; screens include present and total flow, velocity, signal strength and Delta T
Data Logger	Greater than 40,000 data points, time stamped; programmable in one second intervals
Temperature Range	Standard transducers: -40°C to +100°C (-40°F to +212°F)
	Transmitter: -20°C to +60°C (-5°F to +140°F)
	for higher temperature, consult Thermo Fisher Scientific
Physical Specifications	
Transmitter	355.6 mm (14 in) W x 342.9 mm (13.5 in) H x 152.4 mm (6 in) D
	NEMA-6 (IP67), waterproof against accidental immersion and splash-proof with lid open
Transducers	Encapsulated design
Cable Length	5 m (16 ft) standard
Weight	Approximately 4.9 kg (11 lb) with 8-hour battery
	Approximately 6.8 kg (15 lb) with 16-hour battery

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