FT 200

Paddle Wheel Flow Indicator

OVERVIEW

FT 200 series flow meters are extremely versatile flow meters that can be used for a wide variety of applications. These meters offer extreme reliability and low cost for flow measurement. FT 200 series flow meters can be used for water and water like liquids. These meters can also be used for line sizes from 0.5" to 48". Microprocessor based instrumentation ensures accurate readings for both rate of flow indication and total flow indication. A number of programmable features including In-line calibration are standard. Advanced models can offer relay outputs for signals exceeding rate of flow or total flow set points. Industry standard 4-20mA output is optionally available. These instruments are field programmable and doesn't needs any special instruments for calibration. All variables and program parameters are programmable through key pad provided in the instrument. In addition, these meters have RS485 or RS232 Mode of communication to PC through MODBUS Protocol. All the parameters are saved in a non volatile EEPROM memory which doesn't needs any external battery. There is a advanced power fail feature by which even if there is any power failure the Total Flow reading is automatically saved to memory and resumes with the same value after Power On FT200 is available in a IP65 enclosure with field mount, panel mount, pipe mount as well as wall mount options.

ADVANTAGES

- Available from ½" to 48" Line Size
- +-1 % of full scale Accuracy
- Rate of Flow, Total Flow
- Microcontroller signal processing
- Easy field calibration
- 16 Chr. 2 Line Backlit LCD Display
- Programmable Relay Outputs
- Batch Mode Operation
- Pulse Output for Dosing Applications
- Variety of Sensor Fittings
- RS232/RS485 - MODBUS Communication
- Panel Mount, Field Mount, Pipe Mount Enclosures
- Direct Printer Interface
- Feather Touch Keypad

FT 200 SPECIFICATIONS

Indication	16 Character 2 line Alphanumeric LCD
Max. Operating Pressure	10 Kg/cm2
Power supply	220 VAC ± 15 %, 8-24V AC/DC (Factory Preset)
Power Consumption	1 Watt maximum
Percentage Solids	1% of fluid volume non abrasive, non magnetic, particle size not exceeding 100 microns size in diameter and length
Flow Range	0.5 – 5 m/sec
Max. Viscosity	1 Centipoise
Max. Operating Temperature	70 °C
Storage Temperature	0 – 80 °C
Humidity	0 – 80 non condensing
Accuracy	+- 1% of full scale
Relay Output	Optional
M.O.C	Transducer housing - Polypropelene, O Rings – Viton, Rotor – PVDF, Shaft – PVDF /HastalloyC
Program Variables	Saved in non-volatile EEPROM. No battery backup necessary. Data retention 100 years maximum
Communication	RS232/RS485 (Factory Settable) using MODBUS Protocol
Programming Method	From keypad provided in the instrument
Housing	Field mount (112 mm x 82 mm x 40mm), Panel mount (96mm x 96mm x 110mm)

PRECAUTIONS

a.Do not connect AC signals beyond the rated values to the unit. Irreparable damage will arise.
b.Instrument power supply tolerance is +-15% from the rated supply voltage. Variations beyond the stated limit may damage theinstrument.
c.For Panel mount applications donot short sensor leads
d.For Panel mount models, connect sensor only to leads specified in the unit. Donot connect them to external power supplies.Connecting to external power supplies may damage the sensors.
e.Moisture or temperature beyond the stated limits will damage the instrument