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F2 Ultrasonic Flowmeter Series

About

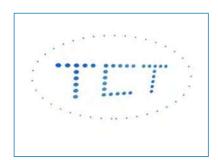
F2 ultrasonic flowmeter is designed for catering to the small pipe size of PVC, carbon steel, stainless steel, copper which can be widely used in HVAC chilled water system, building automation system, farming irrigation system, residential water supply system, cleaning system, recirculating aquaculture system(RAS), etc. It is very easy to install, the installation only needs 30s at fast. The compact structure, is suitable for various narrow working environments.

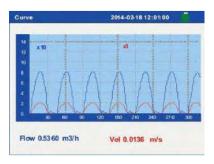
Main Characters

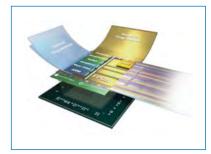
The product is an integrated structure design, which is easy to install through four screws, and has special insulation on the outside. The jacket reduces the hassle of field installation. It is unnecessary to cut the pipe, stop flow for installation and there is no pressure loss. F2 also has rich network functions, supporting Wi-Fi, 4-20mA output, etc, with Cloud data storage and analysis management system. You can have access to "Gentos iCloud", or customize the version that connects to your own cloud system/intelligent management system, realized unattended and unified administration.

TCT Technology

The TCT (Time Comb Technology) is a kind of technology used to measure signal flight time. The technology is invented by Gentos Measurement & Control Co., Ltd. in 2019. Since the technology was invented, it has achieved the time measurement accuracy of 50ps (TVT is 130ps), and has outstanding characteristics of high accuracy, high stability and low cost.



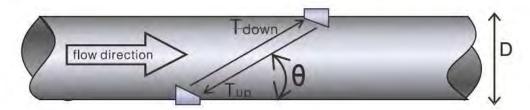




Working Principle

When the ultrasonic signal is transmitted and received through the moving liquid, there will be a difference between the upstream and downstream transit time, which can be used to calculate flow and velocity.

Downstream transducer



Downstream transducer

Installation Steps

The F2 clip on meter is measured with an integrated design. The installation is very simple. F2 is directly clipped on the pipe section, and tightened the screw to turn on the power flow measurement.









Specifications

| Performance Index | | | | | | |
|-------------------------------|--|--|--|--|--|--|
| Flow Range | (0.03∼5.0) m/s | | | | | |
| Accuracy | Valued ±2% | | | | | |
| Repeatability | 0.40% | | | | | |
| Pipe Diameter Range(Optional) | DN20~DN80 | | | | | |
| Measuring Medium | Water | | | | | |
| Pipe Material(Optional) | Carbon steel, stainless steel, copper, PVC | | | | | |
| Function Index | | | | | | |
| Communication Interface | RS485 communication interface, support Fuji protocol and Modbus protocol | | | | | |
| | Frequency range: 2.412~2.484GHz | | | | | |
| NA/151 | Transmitting power: 802.11b 16±2 dBm | | | | | |
| WIFI | 802.11n 13±2 dBm | | | | | |
| | 802.11g14±2 dBm | | | | | |

| | Working temperature: -20~85 $^{\circ}\mathrm{C}$ | | | | | | | |
|--------------------------|---|--|--|--|--|--|--|--|
| | Theoretically, it can reach 40m transmission distance in an open environment | | | | | | | |
| Power Supply | 10~36VDC/500mA | | | | | | | |
| Keyboard | 3touch keys | | | | | | | |
| Display | 128×128 OLED | | | | | | | |
| Temperature | Transmitter installation ambient temperature: $-10^\circ \!\!\! \mathrm{C}^{\sim} \!\!\! 50^\circ \!\!\! \mathrm{C}$ | | | | | | | |
| | Sensor measurement medium temperature : $0^{\circ}\!$ | | | | | | | |
| Humidity | RH: 0∼99%,no condensation | | | | | | | |
| IP | IP54 | | | | | | | |
| Working Pressure | 1.6MPa | | | | | | | |
| Physical Characteristics | | | | | | | | |
| Transmitter | All-in-one | | | | | | | |
| Sensor | Clamp-on | | | | | | | |
| Cable | φ5, 6 core electric cable, standard length: 2m | | | | | | | |

| Dimensions Unit: mm Pipe material(PVC, Carbon Steel, Stainless Steel) | | | | | | | | |
|---|----------|----|-----|-----|-----|-----|---------------------|------------|
| Model | ø | W | W1 | L | L1 | н | Flow Range(m3/h) | Weight(kg) |
| DN20 | A: 21~25 | 60 | 51 | 105 | 115 | 101 | 0.04~6.0 | 0.68 |
| | B: 25~29 | 60 | 51 | 105 | 115 | 101 | 0.04~0.0 | |
| DN25 | A: 28~32 | 60 | 56 | 105 | 115 | 108 | 0.05~9.0 | 0.71 |
| באוע | B: 32~36 | 60 | 56 | 105 | 115 | 108 | 0.05~9.0 | |
| DN32 | A: 35~39 | 60 | 63 | 105 | 115 | 115 | 0.00 15.0 | 0.82 |
| | B: 39~43 | 60 | 63 | 105 | 115 | 115 | 0.09~15.0 | |
| DN40 | A: 46~50 | 60 | 74 | 105 | 115 | 126 | 0.12, 22.0 | 0.96 |
| | B: 50~54 | 60 | 74 | 105 | 115 | 126 | 0.13~23.0 | |
| ראורט | A: 59~63 | 60 | 89 | 105 | 115 | 139 | 0.20, 25,0 | 1.1 |
| DN50 | B: 63~67 | 60 | 89 | 105 | 115 | 139 | 0.20~35.0 | |
| DNCE | A: 72~76 | 60 | 102 | 105 | 115 | 152 | 0.25 00.0 | 1.6 |
| DN65 | B: 76~80 | 60 | 102 | 105 | 115 | 152 | 0.35~60.0 | |
| DN80 | A: 83~87 | 60 | 113 | 105 | 115 | 163 | 0.55,000 | 2.0 |
| | B: 87~91 | 60 | 113 | 105 | 115 | 163 | 0.55~90.0 | |

| | Dimensions Unit: mm Pipe material(Copper) | | | | | | | | |
|-------|---|----|-----|-----|-----|-----|---------------------|------------|--|
| Model | ø | W | W1 | L | L1 | Н | Flow Range(m3/h) | Weight(kg) | |
| DN20 | A: 21~25 | 60 | 51 | 105 | 115 | 121 | 0.04~6.0 | 0.68 | |
| DINZU | B: 25~29 | 60 | 51 | 105 | 115 | 121 | 0.04~0.0 | | |
| DN25 | A: 21~25 | 60 | 56 | 105 | 115 | 128 | 0.05.00 | 0.71 | |
| DINZS | B: 25~29 | 60 | 56 | 105 | 115 | 128 | 0.05~9.0 | | |
| DNIOO | A: 28~32 | 60 | 63 | 105 | 115 | 135 | 0.00 15.0 | 0.82 | |
| DN32 | B: 32~36 | 60 | 63 | 105 | 115 | 135 | 0.09~15.0 | | |
| DNIAO | A: 35~39 | 60 | 74 | 105 | 115 | 146 | 0.10, 00.0 | 0.96 | |
| DN40 | B: 39~43 | 60 | 74 | 105 | 115 | 146 | 0.13~23.0 | | |
| DNICO | A: 46~50 | 60 | 89 | 105 | 115 | 159 | 0.20, 25,0 | 1.1 | |
| DN50 | B: 50~54 | 60 | 89 | 105 | 115 | 159 | 0.20~35.0 | | |
| DNCE | A: 59~63 | 60 | 102 | 105 | 115 | 172 | 0.25 60.0 | 1.6 | |
| DN65 | B: 63~67 | 60 | 102 | 105 | 115 | 172 | 0.35~60.0 | | |
| DN80 | A: 72~76 | 60 | 113 | 105 | 115 | 183 | 0.55,000 | 2.0 | |
| | B: 76~80 | 60 | 113 | 105 | 115 | 183 | 0.55~90.0 | | |

Applications

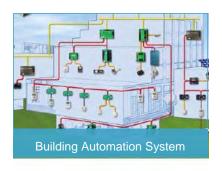
It can be widely used in HVAC system, building automation system, farming irrigation system, residential water supply system, cleaning system, recirculating aquaculture system(RAS), etc.













Interface



Easy operation menu Displaying Instantaneous Flow and Selecting Flow Units Optional unit, m3/h, l/m,gpm(UK), cfm, gpm(USA), etc.



Cloud Storage and Management System

Gentos icloud data storage and analysis Management functions. Data collection can meet different working conditions. Scan the QR code and experience the system!



Password: gentos0755