



ELECTRONET
NETWORKING MEASUREMENT SOLUTIONS

Turbine FLOW Meters



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Turbine Flow Meters

Turbine flow meters are preferred for clean, filtered, low viscosity fluids. The typical accuracy and repeatability of turbine flow meters are $\pm 0.5\%$ and $\pm 0.1\%$, respectively. However, it is possible to achieve accuracy of $\pm 0.25\%$ and repeatability of $\pm 0.05\%$.

Turbine flow meters use the mechanical energy of the fluid to rotate a “pinwheel” (rotor) in the flow stream. Blades on the rotor are angled to transform energy from the flow stream into rotational energy. The rotor shaft spins on bearings. When the fluid moves faster, the rotor spins proportionally faster. Turbine flow meters now constitute 7% of the world market..

Turbine flow meters are inherently sensitive to Reynolds number. They will not be linear at Reynolds numbers nearing or in the laminar region. Therefore, they should be carefully used in the case of fluids with a broad temperature and viscosity range such as some oils. It is not a problem at constant conditions, but is often hard to achieve practically.

TWO WIRE TURBINE FLOW METER

FL-100

Electronet series FL-100 are 2 wire turbine flow transmitters specially used for various industrial applications. The flowing media engages a vaned rotor causing it to rotate at an angular velocity proportional to flow rate. The pick-up coil senses the spinning motion of the rotor inside the pipe & converts it into a pulsating electrical signal. Summation of the pulsating electrical signal is directly related to the total flow.



Features

- 2 Wire System
- Simple & Cost Effective Construction
- Local Display as 8X1 LCD
- Suitable for Conductive and Non Conductive Liquids
- Durable & Versatile
- Easy Maintenance
- Protection Class : IP-66
- Remote Display optionally available

TWO WIRE TURBINE FLOW METER

FL-TX-22

Electronet series FL-TX-22 are 2 wire turbine flow transmitters specially used for various industrial applications. The flowing media engages a vaned rotor causing it to rotate at an angular velocity proportional to flow rate. The pick-up coil senses the spinning motion of the rotor inside the pipe & converts it into a pulsating electrical signal. Summation of the pulsating electrical signal is directly related to the total flow.



Features

- 4 to 20 mA / Pulse Output
- Simple & Cost Effective Construction
- Remote Display optionally available
- Suitable for Conductive and Non Conductive Liquids
- Durable & Versatile
- Easy Maintenance
- Protection Class : IP-66

INSERTION TYPE TURBINE FLOW METER

FL - 104

Electronet series FL-104 are 2 wire insertion type turbine flow transmitter specially used for various industrial applications. The flowing media engages a vaned rotor causing it to rotate at an angular velocity proportional to flow rate. The pick-up coil senses the spinning motion of the rotor inside the pipe & converts it into a pulsating electrical signal. Summation of the pulsating electrical signal is directly related to the total flow.



Features

- 2 Wire System
- Simple & Cost Effective Construction
- Local Display as 8X1 LCD
- Suitable for Conductive and Non Conductive Liquids
- Insertion Type
- Durable & Versatile
- Maintenance Free
- Protection Class : IP-65

BATTERY OPERATED TURBINE FLOW METER

FL - 106

Electronet series FL-106 are battery operated turbine flow transmitter specially used for various industrial applications. The flowing media engages a vaned rotor causing it to rotate at an angular velocity proportional to flow rate. The pick-up coil senses the spinning motion of the rotor inside the pipe & converts it into a pulsating electrical signal. Summation of the pulsating electrical signal is directly related to the total flow.



Features

- Remote Display optionally available
- Simple & Cost Effective Construction
- Local Display as 8X1 LCD
- Suitable for Conductive and Non Conductive Liquids
- 2 to 10 Years Battery Life
- Durable & Versatile
- Maintenance Free
- Protection Class : IP-65

FOUR WIRE TURBINE FLOW METER

FL - 204

Electronet series FL-204 are 4 wire turbine flow transmitter specially used for various industrial applications. The flowing media engages a vaned rotor causing it to rotate at an angular velocity proportional to flow rate. The pick-up coil senses the spinning motion of the rotor inside the pipe & converts it into a pulsating electrical signal. Summation of the pulsating electrical signal is directly related to the total flow.



Features

- 4 wire system
- Simple & Cost Effective Construction
- Suitable for Conductive and Non Conductive Liquids
- Local Display LED: 4 Digit Flow Rate, 8 Digit Totalised Value
- Batch / High / Low Relay contact output
- Easy Maintenance
- Protection Class : IP-65
- Remote Display optionally available

Applications

Food Industry



Automation Industry



Chemical Industry



Thermal Power Energy



Atomic Energy



Manufacturing Industry



Process Industry



Water Treatment Industry



ELECTRONET EQUIPMENTS PVT. LTD.

Factory Address:

Plot No. 8, (SEZ) Phase 1, Kesurdi MIDC,
Khandala, Dist.- Satara
Pin: 412 801, Maharashtra, India.

Registered Office:

Plot No. 84, 85, 86, Tiny Industrial Estate,
Kondhwa Budruk,
Pune-411 048, Maharashtra, India.



+91-20-26931476/2039



ho@eeplindia.com



+91-20-26934122



www.eeplindia.com

* Due to our continuous product revisions, design specification and model numbers are subject to change without notice.