



## Electromagnetic Flow Meter

The Sur-Tech Meter is the result of years of research and field use of electromagnetic flow meter technology. Based on Faraday’s law of induction, these meters can measure almost any liquid, slurry or paste that has minimum electrical conductivity.

Designed, developed and manufactured under strict quality standards, the meter features sophisticated, processor-based signal conversion with accuracies of ±0.25 percent. The wide selection of liner and electrode materials helps ensure maximum compatibility and minimum maintenance over a long operating period.

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### FEATURES

- Two-wire operation improves its noise immunity performance by 700% maximum and 250% in average. For the spike noise, improves its noise immunity performance 250% in average.
- High accuracy (± 0.5% of rate) and its output is as stable as current four-wired magnetic flowmeters.
- Offers a minimum process fluid conductivity of 10µS/cm which is the best among two-wire magflow meters thereby maximising applicability.
- Offers wider range in detector size: 2.5 to 200 mm.
- Available integral and remote, flanged or wafer, making the selection of the right meter for the application simple.
- Offers the diagnostic function for the electrode condition. It diagnoses the empty pipe condition or scale on electrode condition.

### APPLICATIONS

- Corrosive liquid measurement
- Chemical Solution
- Drainage/waste disposal fluid measurement
- Drinking water and waste water service
- Industrial/agricultural water measurement
- Seawater measurement

### SPECIFICATIONS

Enclosure Rating	NEMA Type 4X, IEC IP67
Hazardous Areas Certifications	FM Approval, CSA Certification, ATEX (KEMA) Certification, NEPSI Certification
Output Signal	Analog Output: 4 to 20 mA DC Digital Output: DE. Analog or Digital output is selectable. Pulse Output: open collector output (30V DC, 100 mA max.) Pulse frequency: 0.0001 to 200Hz. Pulse width: 1 ms to 1s. LOW value 2.7V (10mA)
Contact Output	Open collector output (30V DC, 100mA max.). Pulse or contact output is selectable.
Communication Protocol	SFC communication and HART® communication
HART communication	Multidrop mode: current fixed at 12mA. Optional Burst mode is not available.
Load resistance characteristic of communication	External power supply 1.05 to 42V DC for communication.

