



# BROIL

FLOW | CONTROLLER | AUTOMATION

GLOBAL  
SOLUTIONS  
FOR YOUR MEASURING

## ELECTRO MAGNETIC



**BROIL SENSOTEK INDUSTRIES** has evolved into a beacon of innovation and excellence within the manufacturing and service industries. As an ISO 9001:2015 and CE certified company

- Cutting-Edge Technology Solutions
- Custom Software Development Expertise
- Entrepreneurial Leadership
- Global Recognition High Quality Products
- Comprehensive Customer Support
- State of the art infrastructure
- Dynamic Marketing Strategies
- Cutting-Edge Manufacturing Facility


An Electromagnetic flowmeter, also known as a magmeter, Flow meter is a device that measures the flow rate of conductive fluids ( liquids Or slurries ) by inducing a magnetic field and detecting the voltage generated as the fluid passes through it. It's commonly used in industries such as water and wastewater management, chemical processing, and the food and beverage industry.

THE WORLD BEST PROCESS  
INSTRUMENT AND SOFTWARE  
COMPANY OFFERING BEST QUALITY  
PRODUCTS EVERYWHERE AT WORLD WIDE



**FOR MORE INFO**  
**+91 97265 18181**



 Plot No 1, 2, 3, 4, Nilkanth Industrial Park, B/h Dediyanan G.I.D.C., Nagalpur, Mehsana.

 **Email :** info@broiltech.com  
**URL :** www.broiltech.com



## ADVANTAGES

Electromagnetic flow meter make them a popular choice for various industries and applications with Ease of Installation, Obstruction Free Flow Measurement, Cost effectiveness, Bi-directional Flow Measurement, Highly Accurate Volumetric Flow Measurement, Wide Range of Liner Materials and Electrode Options, Low Maintenance Requirements, Resistance to Corrosive Materials and Digital Communication Capabilities.

## MARKETS & AREAS OF APPLICATION

Electromagnetic flow meter is diverse, spanning various industries and applications where accurate and reliable flow measurement of conductive liquids is essential like Water and Wastewater Treatment, Chemical Processing, Food and Beverage Industry, Pulp and Paper Industry, Pharmaceuticals, Mining and Slurries, Oil and Gas, Power Generation, HVAC (Heating, Ventilation, and Air Conditioning).

## GENERAL SPECIFICATION

Housing : SS-304/SS-316 / on request  
 Lining : PTFE / PFA / Rubber / on Request  
 Electrode : Ss316 / HASTELLOY / TANTALUM  
 TITANIUM / PLATINUM  
 Repeatability : 0.2%  
 Accuracy (standard position):  $\pm 0.5$  or 1% FSD  
 Maximum Working Pressure : 60 Bar  
 Fluid & Ambient Temperature :  $-20^{\circ}$  to  $120^{\circ}$  ~  $180^{\circ}$  C  
 Connection : Thread (M) / Flange  
 Tc End

## ELECTRIC CONNECTION

### DISPLAY OUTPUT

\* Please Check Display Manual

calculate pulse/liter at : 25%, 50%, 75% and 100% flow rate with pure water at room temperature

## DISPLAY WITH VARIOUS OUTPUT

Power Voltage : 24 V DC / 230 V AC

### Output Signal

Retransmit : (4 ~ 20) mA / Pulse  
 Communication : RS-485 / HART Protocol / Alarm  
 Relay : High & Low Flow

### Battery Operated Meter

Power Voltage : 3.6 V DC X 4 Lithium Batteries  
 Display Mode : Double row LCD as below

**Q X.XXXXXX** Seven Digit Instantaneous Flow  
 (m<sup>3</sup>/h, L/h, L/M, m<sup>3</sup>/M, m<sup>3</sup>/h, L/h, kg/M, GPM, T/h, kg/h)

**XXXXX.XXXX** Nine Digit Cumulative Flow

Cumulative flow : Automatically expand the display precision.

*The cumulative flow values can be reset.*

Power-fail protection : The instrument coefficient ensures that total flow values for the past ten years are retained even in the event of a power supply drop.

## PERFORMANCE DATA

The Flowmeter work with minimum  $1 \mu\text{s}/\text{cm}$  for  $0.25 \text{ m}^3/\text{hr}$  to  $2500 \text{ m}^3/\text{hr}$  withstand up to 60 Bar pressure. The Electromagnetic Flowmeter typically includes various specifications and characteristics Like wide flow range , pipe size range, liquid conductivity range.

## MODEL RANGE

Model Number	Line Size	Range
BT-MFT - 015	15 MM	0.32 ~ 05.09 m <sup>3</sup> /h
BT-MFT - 020	20 MM	0.57 ~ 09.05 m <sup>3</sup> /h
BT-MFT - 025	25 MM	0.88 ~ 17.67 m <sup>3</sup> /h
BT-MFT - 032	30 MM	1.45 ~ 28.95 m <sup>3</sup> /h
BT-MFT - 040	40 MM	2.04 ~ 40.83 m <sup>3</sup> /h
BT-MFT - 050	50 MM	3.53 ~ 70.69 m <sup>3</sup> /h
BT-MFT - 065	65 MM	5.61 ~ 112.22 m <sup>3</sup> /h
BT-MFT - 080	80 MM	9.05 ~ 180.96 m <sup>3</sup> /h
BT-MFT - 100	100 MM	14.14 ~ 282.74 m <sup>3</sup> /h
BT-MFT - 150	150 MM	33.96 ~ 679.29 m <sup>3</sup> /h
BT-MFT - 200	200 MM	57.69 ~ 1153.71 m <sup>3</sup> /h
BT-MFT - 250	250 MM	97.04 ~ 1940.86 m <sup>3</sup> /h
BT-MFT - 300	300 MM	127.23 ~ 2544.69 m <sup>3</sup> /h

