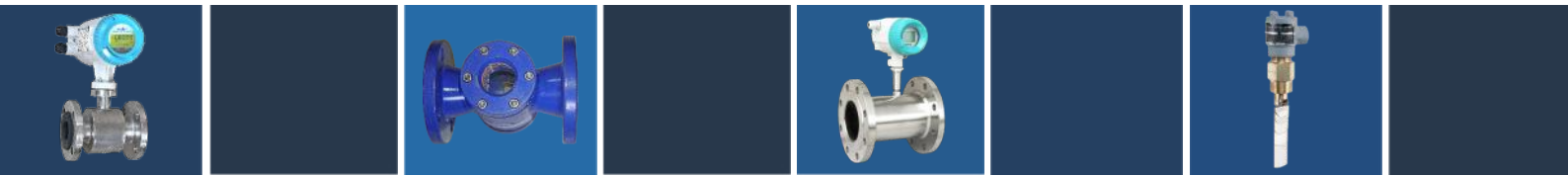


radix®

FLOW CATALOG



Flow Meters
Flow Switches
Flow Indicators
Flow Totalisers
Strainers

www.radix.co.in

FLOW METERS

ELECTROMAGNETIC FLOW METER (EFM)



FLANGE TYPE



SANDWICH TYPE



TRI-CLOVER TYPE

FEATURES

- High accuracy
- Insignificant pressure drop
- Bidirectional flow
- SS construction
- No moving parts
- 3 line LCD backlit display
- Multiple communication protocols
- Process connection as per ASME / EN / AWWA / JIS
- Built-In diagnostics

APPLICATIONS

- **Water and Wastewater**
Water purifier, fluid metering, chemical dosing
- **Chemical Industries**
Chemical feed control
- **Food and Beverage Industries**
Water treatment, chemical dosing
- **Pharmaceutical Industries**
Process control
- **Iron and Steel Industries**
Chilled water control
- **Oil and Gas**
Wastewater

Conductivity	20 $\mu\text{s} / \text{cm}$ (minimum)
Accuracy	$\pm 0.5\%$ of measured value (Typical)
Flow velocity	1 to 10m3/s
Display	7 segment LCD with backlit
Temperature	Max 160°C (as per lining material)
Pressure	Max 20 bar
Line size	1" to 4"
Process connection	Flange type Tri-clover type Sandwich type
Material	
Body	SS316
Measuring tube	SS316
Electrodes	SS316, Hastelloy, Titanium
Grounding ring	SS316
Liners	Hard Rubber, PTFE, PFA, Neoprene
Output	4~20mA, Pulse and Relay output
Communication	Modbus, HART (Optional)
Power supply	24V DC / 230 V AC
Transmitter housing design	Integral mount & remote mount

FLOW METERS

TURBINE FLOW METER (TFM)



FLANGE TYPE



THREADED TYPE



TRI-CLAMP TYPE

FEATURES

- Accurate and repeatable measurement
- SS construction for good corrosion resistance
- Fast response time & high resolution
- Wide temperature Range upto 150°C
- High turndown ratio with extendable flow range
- Inbuilt tubular flow straightener
- Long bearing
- MODBUS, HART protocol

APPLICATIONS

- Solvents
- Petroleum products
- Potable/Demineralized water
- Coolants
- Hydraulic and gear oils
- Low conductivity liquids

TURBINE FLOW METER SIZING

Type	Nominal Diameter		Standard Flow Range Water			
	(mm)	(inch)	(m ³ /hr)		(LPM)	
			Min @ 1 m/sec	Max @ 5 m/sec	Min @ 1 m/sec	Max @ 5 m/sec
TFM 25	25	1"	1.76	8.83	29.45	147.26
TFM 40	40	1.5"	4.52	22.61	75.39	376.99
TFM 50	50	2"	7.06	35.34	117.81	589.05
TFM 80	80	3"	18.09	90.478	301.59	1508.00

BASIC

Accuracy	± 0.65% of span (5 points)
Repeatability	± 0.2% or better
Turn down ratio	10:1
Flow velocity	1 to 5 m/s (for calibration) 1 to 10 m/s (working range)
Temperature	Ambient : -20 to +55°C Process : -20°C to +150°C
Viscosity	Maximum 20000cp
Ambient humidity	5 ~ 90%RH
Operating pressure	10 to 15 Bar

MECHANICAL

Meter size	DN25 to DN80
Process connection	Standard : Flange Type Optional : Threaded, Tri-Clamp type
Flowmeter body MOC	Standard : SS316 / SS316L Optional : SS304, SS304L

OUTPUT

Flow output	4-20mA, isolated
Load resistance (Transmitter)	600 Ohm
Communication	a) RS485/Modbus RTU b) HART
Measured parameters	Flow, Velocity, Totalizer

POWER

Supply	24 V DC
Power consumption	0.2

FLOW TOTALISERS

FLOW TOTALISER

Monitoring and Controlling
Continuous as well as
Batch Flow Processes

- 4 Setpoints / Relays
- Isolated 4~20 mA output
- Isolated RS485/MODBUS RTU



FLT601
6-digit Rate Indicator,
8-digit Totaliser

STRAINERS

- Large straining capacity
- Corrosion & Rust resistance
- Finer filtration with proper alignment
- Available with different MOC
- Easy installation

- Service Compatible water-based fluids
- Max temperature 300 °C
- Max pressure 100 bar
- Body MOC
 - Cast steel WCB 216
 - Cast stainless steel CF8 (304) / CF3 (SS304L) / CF8M (316) / CF3M (316L)

Y-STRAINER

FLANGED TYPE, ½" TO 12", SCREWED & SOCKETED, ½" TO 2"
CAST STEEL & CAST STAINLESS STEEL



TEE STRAINER

FLANGED / BUTTWELDED, 4" TO 24"
CARBON STEEL & STAINLESS STEEL



DUPLEX STRAINER

FLANGED TYPE, 2" TO 12"
CARBON STEEL & STAINLESS STEEL



BASKET STRAINER

FLANGED TYPE, 4" TO 24"
CARBON STEEL & STAINLESS STEEL



FLOW INDICATORS

SIGHT GLASS INDICATOR

Suitable for liquids and gases

Glasses can be individually removed & replaced

- **Cylinder sight flow indicators**
- **Simple viewing window (No Indicator)**
- **Flapper indicator**
- **Rotor indicator**
- **Drip tube indicator**

- Max. temperature : 250 °C
- Max. pressure : 100 Bar
- Wetted parts : CS, SS304, SS316
- Lining : PTFE, Rubber, PFA
- Size : ½ to 8 inch
- Process connection : Flange Type, Threaded Type, Socket Weld Type
- Mounting orientation : Horizontal or Vertical
- Body style : Single window/Double window



Dwyer FLOW INDICATOR



Simple and rugged construction

- Service : Compatible Liquids & Gases
- Max. temperature : 100 °C
- Max. pressure : 8 Bar
- Wetted parts : Body: Acrylic plastic; O-ring: Buna-N (fluoro elastomer available)
Metal parts: SS; Float: SS
- Process connection : 1/8" NPT to 1"NP

FLOW METERS

PADDLEWHEEL FLOWMETER

Large pipe size range, Long life

- Service : Compatible water-based fluids
- Max. temperature : 100 °C
- Max. pressure : 22 Bar
- Wetted parts : Brass or 316 SS;
fitting O-ring: FKM standard
- Output type : 4 to 20 mA, Pulse
- Process connection : Standard : 1.5" NPTM
Optional : 2" NPTM



FLOW SWITCHES

THERMAL DISPERSION FLOW SWITCH

Non-Mechanical, Low Pressure Drop

- Service : Compatible water-based fluids
- Max. temperature : 85 °C
- Max. pressure : 34 Bar
- Wetted parts : SS316, Polysulfone and FKM
- Switch type : 1 NO, 1 NC.
- Process connection : 1/2" NPTM



FLOTECT FLOW SWITCH

Field Adjustable, High Pressure Rating

- Service : Compatible liquids and gases
- Max. temperature : 205 °C
- Max. pressure : 138 Bar
- Wetted parts : Brass or SS316
(Options : PVC, Hastelloy, Nickel,
Monel, Titanium)
- Switch type : SPDT, optional DPDT snap switch
- Process connection : 1/2" to 1.5" NPTM



ENQUIRIES

Instruments : sales@radix.co.in
Sensors : sensors@radix.co.in
Gauges : gauges@radix.co.in
Automation : automation@radix.co.in
Level : level@radix.co.in
Dwyer : sales@radix.co.in

RADIX ELECTROSYSTEMS PVT LTD
EL-135/136/137, Electronics Zone
TTC Ind. Area, MIDC, Mahape
Navi Mumbai - 400 710, India
Tel : + 91 22 71458548
Cell : + 91 84510 40263 • flow@radix.co.in