

Design	Inline Thermal Mass Flowmeter
Function Principle	Heat dissipation technique (calorimetric), primary signal mass flow proportional, independent of pressure and temperature
Sensor Details	2 X Pt-100 RTD with ceramic wire-wound sensor element encapsulated in SS-316Ti (1.4571) tube (4-wire Technique)
Sensor & Body Material	SS-316Ti (DIN1.4571) Sensor & Body SS304 matt finish or Aluminum alloy matt finish
Fluids	Air & Non-corrosive gases
Flow velocity range	0.6 – 120 Nm/s (lower or higher upon request) (Reference as per DIN 1343; 0°C/1.01325 bar(a), 0%RH)
Meter Sizes	DN50(2"); DN65(2 ½"); DN80(3"); DN100(4"); DN150(6")
Flowrate ranges	As per below table*
Turndown ratio	100:1
Accuracy (%)	±3.0% reading (0°C-100°C) at reference calibration conditions.
Repeatability (%)	±0.5% of reading
Response time t90	<1.5 secs
Warming Up Time	5min after switching on
Operating temperature	0°C to 60°C
Operating pressure	PN16 (Higher upon request)
Ambient temperature	-20°C to +60°C
Installation Position	Horizontal & Vertical orientation
Steadying Distance	15D upstream, 5D downstream (D = inner diameter of pipe)
Process connection	Pipe schedule 40; ANSI 150# Flange End (Other upon request)
Integral Signal Transmitter	Microprocessor based, complete and automatically compensation of temperature conditioned signal drifting & digitally conductivity compensation adjustment of heater over temperature
Input Power Supply	Isolated 24VDC (STD)
Power Consumption	< 5 watts
Display	16 characters X 4 lines LCD backlit illuminated Display
Display Indication Values	Mass flow and totalizer, volume flow and totalizer, velocity, temperature
Measuring Unit:	User selectable Kg/hr; SCFM; Nm ³ /hr or Sm ³ /hr & process temperature (°C)
Signal Output	0/4-20 mA DC (Isolated @600Ω) OR 0 -10VDC flowrate proportional; 1 NO / NC Relay contact @ 250VAC / 6A. programmable for temperature Or flowrate, opto-coupler impulse output, RS232(ASCII) bi-directional communication
Ingress Protection	IP65 as per IS-60947/IEC-60529
Enclosure MOC	Aluminum Die-cast material; Dimension :160mm(W) x 160mm(L) x 91(H)
Certifications	Electronic Transmitter EMC/EMI compliant as per IEC 61000 standards
Electrical Connection	Plug-n-play M12, 12 pin male connector IP67 rated with M12 female cable connector with 1mtrs loose end cable for input and output
Software package	Free PC Terminal Software for programming
Calibration frequency	Recommended to re-calibrate once in 2 years or as per customer ISO audit norms
Warranty clause	1 year warranty against any manufacturing defects if found from the date of supply

⚠ *Table: Pipe sizes & approx. flow rates as per 120Nm/s with DIN 1343 0°C/1.01325 bar(a),0%RH)

mm	DN50(2")	DN65(2½")	DN80(3")	DN100(4")	DN150(6")
Nm ³ /h	930	1330	2050	3500	8000
SCFM	585	840	1295	2210	5060

Note: Due to continuous development technical specifications may change from time to time

LEOMI INSTRUMENTS PVT. LTD.

E-17/5, Electronic GIDC, Sector-26, Gandhinagar-382027, Gujarat, INDIA.

+91 79 23287899, +91 90547 50586 ✉ sales@leomi.in 🌐 www.leomi.in