

# LEOMI 581

Inline Thermal Mass Flowmeter



## FEATURES

- No moving parts
- Air/Gas Mass flow meter independent of pressure and temperature variations
- Velocity ranges up to 120 Nm/s.
- Highest accuracy in it's class  $\pm 3\%RD$
- Wide turn down ratio 100:1
- Inline rugged stainless steel body
- Easy sensor cleaning
- Integral display
- I/O Plug-n-play connector
- Protection class IP 65
- Programmable units via Terminal software

## SENSOR TECHNICAL SPECIFICATIONS

Line Size	: Dn15(½"); DN25(1"); DN40(1½"); DN50(2"); DN65(2 ½"); DN80(3"); DN100(4"); DN150(6")
Process connection	: Pipe schedule 40; ANSI 150# Flange End (Other upon request)
Sensor Details	: 2 X Pt-100 RTD Sensor Element (4-wire Technique)
Sensor & Body Material	: Sensor- SS-316Ti DIN1.4571 Body- Aluminium alloy (Std) or SS304 matt finish (optional)
Fluids	: Air & Non-corrosive gases
Flow Range	: 0.6 – 120 Nm/s (Turndown 100:1); (lower or higher upon request) (N stands for DIN 1343: 0°C/1.01325 bar(a), 0% RH)
Accuracy (%) *	: ±3% reading (0°C-100°C); at reference calibration conditions upto 75 m/s. (** Better accuracy possible please consult factory)
Repeatability (%)	: ±0.5% of reading
Response time t90	: <1.5 secs
Operating temperature	: 0°C to 100°C
Operating pressure	: 16bar(g) Max. PN16 (Higher upon request)
Ambient temperature	: -20°C to +60°C
Ingress Protection	: IP65

\* Calorimetric flow sensors normally needed no service, but however, electronic components get under influence of growing older and changing its electrical characteristics. Changing of the coating by corrosion and pollution could also influence the accuracy. So, it is necessary, from time to time (recommendation: about every 2 years) to check the calibration.

\*\* Better accuracy with additional charges possible.

Note: Technical specifications and dimensions subject to change due to continuous research and development

## SIGNAL TRANSMITTER TECHNICAL SPECIFICATIONS

### LEOMI 581

Integral Signal Transmitter	: Microprocessor based, complete and automatically compensation of temperature conditioned signal drifting. Digital conductivity compensated adjustment of heater over temperature
Power Supply	: Isolated 24VDC (Std)
Power Consumption	: < 5 watts
Display	: 16 X 4 LCD Backlit Display
Measuring Unit	: User selectable Kg/hr; SCFM; Nm <sup>3</sup> /hr or Sm <sup>3</sup> /hr & Process Temperature (°C)
Outputs	: 0/4-20 mA DC (Isolated 600Ω) OR 0 -10VDC flowrate proportional; 1 NO/ NC Relay contact @250VAC/ 6A programmable for Temperature OR Flowrate; RS- 232 Modbus Bi-directional for data transmission & configuration via LEOMI 580.1.0.0 Terminal Software, Opto-coupler impulse output
Testing standards	: EMC/EMI compliant as per IEC 61000 as per CE norms
Enclosure Details	: Aluminium Diecast 160mm (L) x 160mm(W) x 91mm (D)

## 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