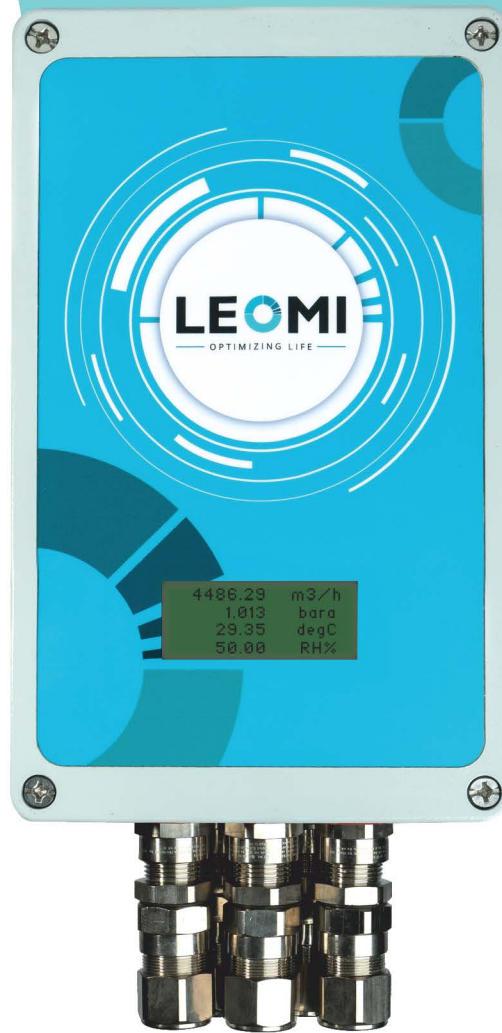


# LEOMI 587

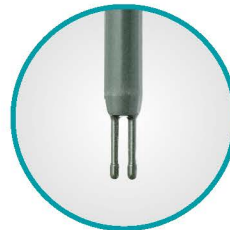
Actual Mass / Volume Flowmeter



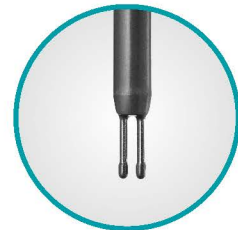
SS 316Ti / Hastelloy C276  
without Safety Head



SS 316Ti with  
Safety Head



HALAR® Coated



PFA Coated

## FEATURES

- Measuring actual mass/volume flow rate
- Suitable to 15mm to 10000mm pipe sizes
- Probes with  $\varnothing=12\text{mm}/20\text{mm}(\text{HC276})$  & Length up-to 2000 mm available
- Better accuracy  $< \pm 2\% \text{RD}$  of actual mass flow rate
- Upto 4 user selectable analogue input such as pressure, temperature, power or RH% etc.
- Turndown ratio 100:1 or better
- Accurate measurement over temperature ranges upto 400°C
- In-built data storage with USB 2.0 in csv format for input parameters
- In-built auto purging system for sensor cleaning
- Ideal for customized flow control applications with PC software

## SENSOR TECHNICAL SPECIFICATION

Sensor Details	: 2 X Pt-100 RTD Sensor Element (4-wire Technique) Diameter :12mm(Std), 20mm, 25mm (Optional) Length : 250mm; 500mm; 1000mm (Other upon request)
Sensor Material	SS-316Ti DIN1.4571/ Hastelloy C276; HALAR® & PFA Coating for corrosive gases (optional) (Other consult factory)
Fluids	Air & Gases
Flow Range	: 0.6 – 65 Nm/s (Turndown 100:1); 0.6 -150 Nm/s (optional) (N stands for DIN 1343: 0°C/1.01325 bar(a), 0% RH)
Accuracy (%)*	: ±1.5% reading (-40°C-100°C); ±2.0% reading (0°C -200°C/ 300°C/ 400°C) for >=5m/s; +/- 0.1m/s. or better below 5m/s velocity at reference calibration conditions upto 75m/s. (** Better accuracy possible please consult factory)
Repeatability (%)	: ±0.5% of reading
Response time t90	: <3 secs
Operating temperature	: -40°C to +100°C, 0 - 200°C; 0 - 300°C; 0 - 400°C
Operating pressure	: 16bar(g) Max. PN16 (Higher upon request)
Ambient temperature	: -40°C to +80°C
Process connection	: SS-316 Compression ferrule fitting for probe: ½" NPT(M) & ¾" NPT(M) (Other upon request)
Ingress Protection	: IP67 (NEMA 6)

\* 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 587

Remote Signal Transmitter	: Microprocessor based, calculates operating mass or volume flow rate with additional inputs of pressure and/or temperature. Customised analogue & digital inputs/outputs
Power Supply	: 24VDC (18 - 36VDC) OR 100 – 265 VAC@50Hz
Power Consumption	: < 10 watts
Display	: 16 X 4 LCD Backlit Display
Measuring Unit	: Mass Flowrate (Kg/hr) Totalizer (Kg); Volume flowrate (m3/Hr or CFM) & Totalizer (m3 or CF) & Process Temperature(°C)
Outputs	: 0/4-20 mA DC (Isolated 600Ω) OR 0 -10VDC flowrate proportional; 2 NO/ NC Relay contact @250VAC/ 6A programmable for Temperature OR Flowrate; RS485 Modbus RTU protocol with LEOMI 587.1.0.0 configuration software, Opto-coupler impulse output (other data converters available on request)
Ambient Temperature	: -20°C to +60°C
Inbuilt Storage	: In-built data storage with USB 2.0 in csv format for input parameters
Ingress Protection	: IP 65/ IP 66 (NEMA 4X) OR IP 67 (NEMA 6) (Optional)
Testing standards	: EMC/EMI compliant as per IEC 61000 as per CE norms
Enclosure Details	: ABS Plastic, 200mm(L) x150mm(W) x79mm(D); Aluminium Diecast (Optional) 260mm (L) x 160mm(W) x 91mm (D) (Other upon request)

## LEOMI INSTRUMENTS PVT. LTD.

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