

 $q=h\Delta T$



Manufacturer of Insertion Thermal Mass Flowmeter for Compressed Air & Process Gases

GERMAN TECHNOLOGY ENGINEERED IN INDIA

AutomationCommunity.com

ABOUT US

A continuous endeavour of more than two decades into the field of technologies and automation has inspired LEOMI Founders to start a manufacturing venture looking into the industrial measurement solutions that optimizes life. LEOMI provides affordable and reliable solutions with the hands on expertise of MTS Engineers Pvt Ltd that has fuelled reputed companies for industry specific technologies. LEOMI strive to hunt industries' rugged applications for optimization of industrial processes with German technology transfer from growth engine of India, Gujarat.



Developing measurement instruments to optimize life of industrial processes & equipments

VTEGRITY



We embrace values of our stakeholders by remaining transparent and ethical in our dealings

CTICAL



We understand and adaptive to real situations of our stakeholders for our business actions

SPONSIBLE



We responsibly conduct business considering socio-economic needs

OPTIMIZING LIFE OF PROCESS IN A THE OF PROCESS IN A THE WAY TH

OLISTIC



We accept holistic approaches in collaboration with our stakeholders for betterment of humanity

NOVATIVE



Our team engages in providing innovative solutions by working upon customer's pain areas consciously

- $\bullet \ \ Started\ manufacturing\ at\ Electronic\ GIDC\ Gandhinagar, India\ in\ the\ year\ 2018\ with\ more\ than\ 10000\ sq\ ft\ 3\ floor\ premises.$
- An ISO 9001:2015 & Start-up India registered company.
- "Optimizing Life" is a central idea for new product & solutions development helping process optimization & control.
- Developing Thermal Mass Flowmeter in technical collaboration with Softflow.de Germany, product proven field performance more than 20 years, now produced at Leomi India.
- Highly experienced promoters & trained technical staff for production, testing, calibration and R&D.
- In-house product quality testing & proprietary calibration system with latest renowned brand test equipment in place.
- $\bullet \ \ In stalled \ In dia's \ First \ state-of-art \ Fully \ Automatic \ Wind \ Tunnel \ Made \ in \ Germany \ traceable \ to \ ISO-17025 \ standards.$

rechnology verification initiative

We can work together for your application verification with the initiative taken by LEOMI. Our engineers are ready to join hands with you for any other application we can process. Let's explore your application with our thermal mass flow solutions for its verification jointly.



ERTIFICATIONS





LIBRATION

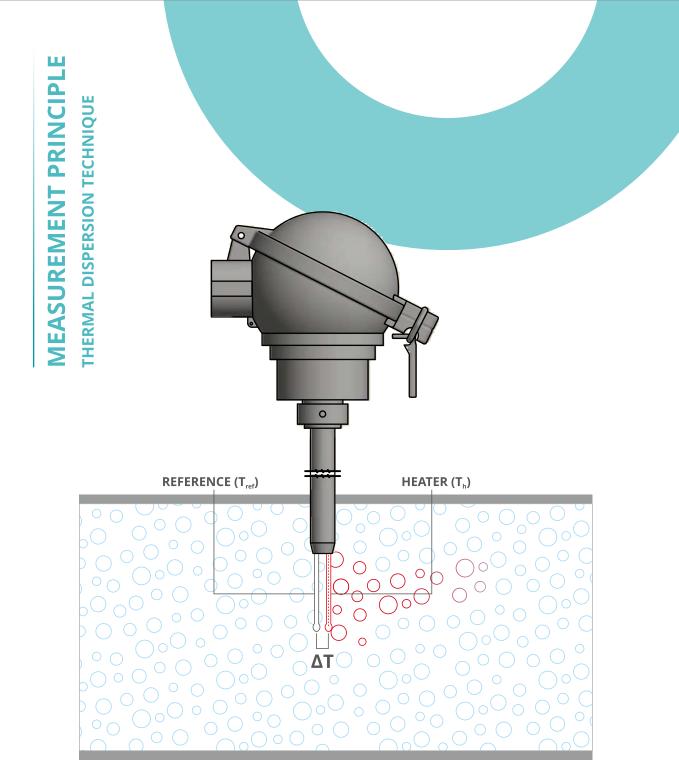
CALIBRATION FACILITY

India's first In-house latest state-of-the-art made in Germany fully automatic Göettinger calibration wind tunnel DKD certified as per ISO-17025 DAkkS traceability for Air Velocity ranges 0.2 m/s to 75 m/s with flow uniformity of $\pm 0.2\%$.

CALIBRATION SERVICES

LEOMI provides calibration services for other manufacturers of various types of Air velocity Instruments such as Insertion Thermal Mass Flowmeter, Hot-wire & Vane Anemometer, Pitot Tubes etc.





Constant Temperature Anemometry (CTA)

(Digital controlled Circuit not Wheatstone bridge)

LEOMI Thermal Mass (Calorimetric) Flow Meter works on the physical principle of thermal dispersion from a heated element to the ambient medium (example: air or gases). This is affected by the velocity, density (temperature and pressure) and by the characteristic of the medium. The amount of needed energy is a function of the temperature difference ΔT and the mass flow.

Gas flowing through two RTD Pt-100 one reference (T_{rel}) and other Heater (Th). The temperature difference (over-temperature) Δt between the reference sensor (medium temperature) and the heater sensor is controlled constantly. As per **King's Law**, higher the mass flow rate, higher the cooling effect of the heater sensor, thus higher the power required to maintain the differential temperature constant. Therefore the heater power is proportional to the gas mass flow rate.

LEOMI 586 Standard Mass / Volume flowmeter





SS 316Ti / Hastelloy C276 without Safety Head



SS 316Ti with Safety Head



HALAR® Coated



PFA Coated

FEATURES

- No moving parts
- Wide measuring ranges allow the detection of leakage & increases in consumption
- · Measuring mass flow rate independent of pressure and temperature variations
- High accuracy throughout temperature ranges up to 400°C
- Operates in any positions
- Programmable pipe diameters from 15mm to 10000mm
- Probes with Ø=12mm & Length up to 2000 mm available
- Circular, Square, Rectangular and other ducts mounting possible
- Easy Installation & maintenance
- HALAR® & PFA coated probes for highly corrosive gases available
- Integration in data network with different data converters possible
- In-built terminal software with gas volume, gas mixture & insertion depth calculators

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 75 m/s. (**Better accuracy possible please consult factory)
Repeatability (%)	: ±0.5% of reading
Response time t90	: <1.5secs
Operating	: -40°C to +100°C, 0 - 200°C;
temperature	0 -300°C; 0 - 400°C
Operating pressure	: 16bar(g) Max. PN16 (Higher upon request)
Ambient temperatur	e: -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.

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

SIGNAL TRANSMITTER TECHNICAL SPECIFICATIONS



LEOMI 586

	LLOWII 300
Remote Signal Transmitter	: Microprocessor based, complete and automatic compensation of temperature conditioned signal drifting. Digital conductivity compensated adjustment of the heater over temperature : 24VDC (18 - 36VDC) OR
Power Supply	100 – 265 VAC@50Hz
Power Consumption	: < 5 watts
Display	: 16 X 4 LCD Backlit Display
Measuring Unit	: Mass Flowrate (Kg/hr) Totalizer (Kg); Volume flowrate (Nm3/Hr or SCFM) & Totalizer (Nm3 or SCF) & Process Temperature(°C)
Outputs	: 0/4-20 mADC (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 586.1.0.0 Terminal Software, Opto-coupler impulse output (other data converters available on request)
Ambient Temperature	: -20°C to +60°C
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)

^{**} Better accuracy with additional charges possible.

MODEL CODE LEOMI 586

Probe MOC S	Part No.					
\$ \$\$316 IT (1.4571) C Hastelloy (276 (2.4819) H \$\$315 IT (1.4573) with HALAR® Coating - Upto 175°C P \$\$316 IT (1.4573) with HALAR® Coating - Upto 175°C 2 Length 2 250 mm 5 300 mm 9 0 ther (Please Specify) 3 Temperature 1 1 100°C 2 200°C 3 300°C 4 400°C 9 300°C 4 400°C 4 Probe Sensor Protection N Without Safety Head N Without Safety Head N With Safety Head (only for \$5316 Probe MOC) 5 Probe Head Junction Box MOC A Aluminium Die Cast 9 Other (Please Specify) 6 Probe Connection 1 \$\$3.816 Compression Ferrule – 1/2" NPT (M) for \$\$316 or 3/4" NPT (M) for Hastelloy C758 Probe MOC 9 Other (Please Specify) 7 Cable 1 \$\$5.816 Compression Ferrule – 1/2" NPT (M) for \$\$5.316 or 3/4" NPT (M) for Hastelloy C758 Probe MOC 9 Other (Please Specify) 7 Cable 1 \$\$5.816 Compression Serrule – 1/2" NPT (M) for \$\$5.316 or 3/4" NPT (M) for Hastelloy C758 Probe MOC 9 Other (Please Specify) 8 Transmitter R Remote 9 Input Power Supply 1 24 VDC 2 100 - 265 VAC@50Hz Output 1 C 4-20 mA DC (Isolated@6000) V 0-10 - 10 VDC H HART Compatible 4-20 mA DC Uptut 2 10 Communication Interface N Not Applicable* N Not Applicable* N SC 485 Plastic – IP 65 A Lluminium Dic Cast – IP 66 A Lluminiu		S 2 3 Y A 1 1 R 1 C M 1 P 0				
C Hasteloy C276 (2.4819) H S 53 16 Ti (1.4571) with PLAR® coating - Upto 75°C P S53 16 Ti (1.4571) with PLAR® coating - Upto 175°C 2 Length 2 250 mm 5 500 mm 8 1000 mm 9 Other (Please Specity) 3 Temperature 1 100°C 2 20°C 3 300°C 4 40°C 4 40°C 4 Probe Sensor Protection N Without Safety Head Y With Safety Head (orly for 55316 Probe MOC) 5 Probe Head Junction Box MOC A Aluminium Die Cast 9 Other (Please Specity) 6 Probe Connection 1 S53 16 Compression Ferrule - 1/2" NPT (M) for S5-316 or 3/4" NPT (M) for Hastelley C276 Probe MOC 9 Other (Please Specity) 7 Cable 1 S5 Mits 1 S M	1	Probe MOC				
H SS 316 Ti (1.4571) with HALAR® Coating - Upto 175°C P SS 316 Ti (1.4571) with HALAR® Coating - Upto 175°C 2						
P S 316 Ti (1.4571) with PFA Coating - Upto 175°C 2		Hastelloy C276 (2.4819) H SS 316 Ti (1.4571) with HALAR® Coating - Upto 75°C				
2 250 mm 8 1000 mm 9 Other (Please Specify) 3						
2 250 mm 8 1000 mm 9 Other (Please Specify) 3	2	Longth				
S 500 mm 8 1000 mm 9 Other (Pleass Specify)	2					
3 Temperature 1 100°C 2 200°C 3 300°C 4 400°C 4 400°C 4 400°C 4 400°C 5 3 300°C 4 400°C 6 4 400°C 7 4 4 400°C 7 4 4 4 4 4 4 4 4 4		5 500 mm				
1 100°C 2 200°C 3 300°C 4 400°C 4 400°C 4 400°C 4 400°C 5 3 300°C 6 4 400°C 7 4 4 400°C 7 4 4 400°C 7 4 4 4 400°C 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4						
1		other (riease specify)				
2 200°C 3 300°C 4 400°C 4 400°C 4 400°C 4 Probe Sensor Protection N Without Safety Head Y With Safety Head Y With Safety Head (only for SS316 Probe MOC) 5 Probe Head Junction Box MOC A A Junimium Die Cast 9 Other (Please Specify) 6 Probe Connection 1 SS 316 Compression Ferrule – 1/2" NPT (M) for SS-316 or 3/4" NPT (M) for Hastelloy C276 Probe MOC 9 Other (Please Specify) 7 Cable 1 5 Mrs 2 10 Mrs 3 20 Mrs 4 30 Mrs 9 Other (Please Specify) 8 Transmitter R Remote 9 Input Power Supply 1 24 VDC 2 100 - 265 VAC@50H2 10 Output 1 C 4-20 mA DC (Isolated@6000) V 0-10 VDC H HART Compatible 4-20 mA DC 11 Relay Output or Pulse Output 12 Communication Interface N NOT Applicable* N R 4 845 Modus RTU 9 Other (Please Specify) 13 Enclosure MOC 5 ABS Plastic – IP 65 6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 67 9 Other (Please Specify)	3	Temperature				
3 300°C 4 400°C						
A						
N Without Safety Head		4 400°C				
N	4	Probe Sensor Protection				
Probe Head Junction Box MOC		N Without Safety Head				
A Aluminium Die Cast 9 Other (Please Specify) 6 Probe Connection 1 SS 316 Compression Ferrule – 1/2" NPT (M) for SS-316 or 3/4" NPT (M) for Hastelloy C276 Probe MOC 9 Other (Please Specify) 7 Cable 1 S Mtrs 2 10 Mtrs 3 20 Mtrs 4 30 Mtrs 9 Other (Please Specify) 8 Transmitter R Remote 9 Input Power Supply 1 24 VDC 2 100 -265 VAC@50H2 10 Output 1 C 4-20 mA DC (Isolated@600Ω) V 0-10 VDC H HART Compatible 4-20 mA DC 11 Output 2 1 Relay Output or Pulse Output 12 Communication Interface N Not Applicable* N R 5 485 Modebus RTU 9 Other (Please Specify) 13 Enclosure MOC 5 A ABS Plastic - IP 65 6 Aluminium Die Cast - IP 66 7 Other (Please Specify)		Y With Safety Head (only for SS316 Probe MOC)				
9 Other (Please Specify) 6 Probe Connection 1 SS 316 Compression Ferrule – 1/2" NPT (M) for SS-316 or 3/4" NPT (M) for Hastelloy C276 Probe MOC 9 Other (Please Specify) 7 Cable 1 5 Mtrs 2 10 Mtrs 3 20 Mtrs 4 30 Mtrs 9 Other (Please Specify) 8 Transmitter R Remote 9 Input Power Supply 1 24 VDC 2 100 - 265 VAC@50Hz 10 Output 1 C 4-20 mA DC (Isolated@600Ω) V 0-10 VDC H HART Compatible 4-20 mA DC 11 Output 2 1 Relay Output or Pulse Output 12 Communication Interface N Not Applicable* M RS 485 Modbus RTU 9 Other (Please Specify) 13 Enclosure MOC 5 ABS Plastic – IP 65 6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 66 9 Other (Please Specify)	5					
6						
1 SS 316 Compression Ferrule – 1/2" NPT (M) for SS-316 or 3/4" NPT (M) for Hastelloy C276 Probe MOC 9 Other (Please Specify) 7 Cable 1 5 Mtrs 2 10 Mtrs 3 20 Mtrs 4 30 Mtrs 9 Other (Please Specify) 8 Transmitter R Remote 9 Input Power Supply 1 24 VDC 2 100 - 265 VAC@50Hz 10 Output 1 C 4-20 mA DC (Isolated@600Ω) V 0-10 VDC H HART Compatible 4-20 mA DC 11 Output 2 1 Relay Output or Pulse Output 12 Communication Interface N Not Applicable* M RS 485 Modbus RTU 9 Other (Please Specify) 13 Enclosure MOC 5 ABS Plastic – IP 65 6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 67 9 Other (Please Specify)		9 Other (Please Specify)				
C276 Probe MOC 9 Other (Please Specify) 7	6					
9 Other (Please Specify) 7 Cable 1 5 Mtrs 2 10 Mtrs 3 20 Mtrs 4 30 Mtrs 9 Other (Please Specify) 8 Transmitter R Remote 9 Input Power Supply 1 24 VDC 2 100 - 265 VAC@50Hz 10 Output 1 C 4-20 mA DC (Isolated@600Ω) V 0-10 VDC H HART Compatible 4-20 mA DC 11 Output 2 1 Relay Output or Pulse Output 12 Communication Interface N Not Applicable* M R 5485 Modbus RTU 9 Other (Please Specify) 13 Enclosure MOC 5 AB5 Plastic - IP 65 6 Alluminium Die Cast - IP 66 7 Alluminium Die Cast - IP 66 7 Alluminium Die Cast - IP 67 9 Other (Please Specify)						
7						
1 5 Mtrs 2 10 Mtrs 3 20 Mtrs 4 30 Mtrs 9 Other (Please Specify) 8 Transmitter R Remote 9 Input Power Supply 1 24 VDC 2 100 - 265 VAC@50Hz 10 Output 1 C 4-20 mA DC (Isolated@600Ω) V 0-10 VDC H HART Compatible 4-20 mA DC 11 Output 2 1 Relay Output or Pulse Output 12 Communication Interface N Not Applicable* M RS 485 Modbus RTU 9 Other (Please Specify) 13 Enclosure MOC 5 ABS Plastic - IP 65 6 Aluminium Die Cast - IP 66 7 Aluminium Die Cast - IP 67 9 Other (Please Specify)	_					
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30 Mtrs 9 Other (Please Specify)		2 10 Mtrs				
9						
State						
R Remote						
9	8					
1 24 VDC 2 100 - 265 VAC@50Hz 10 Output 1 C 4-20 mA DC (Isolated@600Ω) V 0-10 VDC H HART Compatible 4-20 mA DC 11 Output 2 1 Relay Output or Pulse Output 12 Communication Interface N Not Applicable* M RS 485 Modbus RTU 9 Other (Please Specify) 13 Enclosure MOC 5 ABS Plastic - IP 65 6 Aluminium Die Cast - IP 66 7 Aluminium Die Cast - IP 67 9 Other (Please Specify)		iv indice				
10	9					
10						
C 4-20 mA DC (Isolated@600Ω) V 0-10 VDC						
V 0-10 VDC H HART Compatible 4-20 mA DC 11 Output 2 1 Relay Output or Pulse Output 12 Communication Interface N Not Applicable* M RS 485 Modbus RTU 9 Other (Please Specify) 13 Enclosure MOC 5 ABS Plastic – IP 65 6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 67 9 Other (Please Specify)	10					
11 Output 2 1 Relay Output or Pulse Output 12 Communication Interface N Not Applicable* M RS 485 Modbus RTU 9 Other (Please Specify) 13 Enclosure MOC 5 ABS Plastic – IP 65 6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 67 9 Other (Please Specify)		V 0-10 VDC				
1 Relay Output or Pulse Output 12 Communication Interface N Not Applicable* M RS 485 Modbus RTU 9 Other (Please Specify) 13 Enclosure MOC 5 ABS Plastic – IP 65 6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 67 9 Other (Please Specify)		H HART Compatible 4-20 mA DC				
1 Relay Output or Pulse Output 12 Communication Interface N Not Applicable* M RS 485 Modbus RTU 9 Other (Please Specify) 13 Enclosure MOC 5 ABS Plastic – IP 65 6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 67 9 Other (Please Specify)	11	Output 2				
N Not Applicable* M RS 485 Modbus RTU 9 Other (Please Specify) 13 Enclosure MOC 5 ABS Plastic – IP 65 6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 67 9 Other (Please Specify)						
N Not Applicable* M RS 485 Modbus RTU 9 Other (Please Specify) 13 Enclosure MOC 5 ABS Plastic – IP 65 6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 67 9 Other (Please Specify)	12	Communication Interface				
9 Other (Please Specify) 13 Enclosure MOC 5 ABS Plastic – IP 65 6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 67 9 Other (Please Specify)	<u>-</u>	N Not Applicable*				
Enclosure MOC 5 ABS Plastic – IP 65 6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 67 9 Other (Please Specify)						
5 ABS Plastic – IP 65 6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 67 9 Other (Please Specify)		9 Other (Please Specify)				
6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 67 9 Other (Please Specify)	13					
7 Aluminium Die Cast – IP 67 9 Other (Please Specify)						
		7 Aluminium Die Cast – IP 67				

^{*} RS-232 Modbus Bi-directional for data transmission & configuration via LEOMI 586.1.0.0 Terminal Software is by default





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 Ø=12mm/20mm(HC276) & Length up-to 2000 mm available
- Better accuracy < ±2%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

Senso	r Details	:	2 X Pt-100 RTD Sensor Element (4-wire Technique)
			Diameter :12mm(Std), 20mm, 25mm (Optional)
			Length: 250mm; 500mm; 1000mm (Other upon request)
Senso	r Material		SS-316Ti DIN1.4571)/ Hastelloy C276; HALAR® & PFA Coating for corrosive gases (optional) (Other consult factory)
Fluids			Air & Gases
Flow R	lange	:	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)
Accura	acy (%)*	:	$\pm 1.5\%$ reading (-40°C-100°C); $\pm 2.0\%$ 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)
Repea	tability (%)	:	±0.5% of reading
Respo	nse time t90	:	<3 secs
Opera	ting	:	-40°C to +100°C, 0 - 200°C;
tempe	erature		0 - 300°C; 0 - 400°C
Opera	ting pressure	:	16bar(g) Max. PN16 (Higher upon request)
Ambie	nt temperature	:	-40°C to +80°C
Proces	ss connection	:	SS-316 Compression ferrule fitting for probe: ½" NPT(M) & ¾" NPT(M) (Other upon request)
Ingres	s 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.

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

SIGNAL TRANSMITTER TECHNICAL SPECIFICATIONS



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 mADC (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)

 $^{{\}tt **Better\,accuracy\,with\,additional\,charges\,possible.}$

MODEL CODE LEOMI 587

Part No.	
0500 0587	S 2 3 Y A 1 1 R 1 C M 1 P 0
1	Probe MOC
	S SS 316 Ti (1.4571) C Hastelloy C276 (2.4819)
	H SS 316 Ti (1.4571) with HALAR® Coating – Upto 75°C
	P SS 316 Ti (1.4571) with PFA Coating - Upto 175°C
2	Length
	2 250 mm
	5 500 mm 8 1000 mm
	9 Other (Please Specify)
3	Temperature
	1 100°C
	2 200°C
	3 300°C
	4 400°C
4	Probe Sensor Protection
	N Without Safety Head Y With Safety Head (only for SS316 Probe MOC)
5	Probe Head Junction Box MOC
3	A Aluminium Die Cast
	9 Other (Please Specify)
C	Ducks Connection
6	Probe Connection SS 316 Compression Ferrule – 1/2" NPT (M) for SS-316 or 3/4" NPT (M) for
	Hastelloy C276 Probe MOC
	9 Other (Please Specify)
7	Cable
	1 5 Mtrs
	2 10 Mtrs
	3 20 Mtrs 4 30 Mtrs
	9 Other (Please Specify)
8	Transmitter
	R Remote
9	Input Power Supply
	1 24 VDC
	2 100 - 265 VAC@50Hz
10	Input
	2 4-20 mA – 2 Channel
	3 4-20 mA - 3 Channel
	4 4-20 mA – 4 Channel
11	Input 1
	C 4-20 mA DC (Isolated@600Ω) V 0-10 VDC / 0-5 VDC
	V 0-10 VDC / 0-3 VDC
12	Output 2
	1 Relay Output – 2 No.
13	Communication Interface
	M RS 485 Modbus RTU 9 Other (Please Specify)
14	Enclosure MOC
	5 ABS Plastic – IP 65
	6 Aluminium Die Cast – IP 66 7 Aluminium Die Cast – IP 67
	9 Other (Please Specify)
	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

TEXTILE INDUSTRY

CEMENT & FERTILIZERS



Compressed Air, Combustion Air, Natural Gas, Aeration Air



Process Gas, Co₂ Gas, Compressed Air, Natural Gas, Combustion Air, Flue Gas, Aeration Air

CHEMICAL & PETROCHEMICALS



Flare Gas, Process Gas, Compressed Air, Natural Gas, Combustion Air, Aeration Air (4)

Fluegas, Blast Furance Gas, Combustion Air, Compressed Air, Natural Gas, Welding Gas

AUTOMOBILE & ANCILLARIES

STEEL & POWER



Natural Gas, Compressed Air, Welding Gases

FOOD & PHARMACEUTICALS



Aeration Air, Biogas, Compressed Air, Natural Gas,

No Pressure Drop

> High Turndown Ratio

Accurate measurement over temperature ranges upto 400°C

Works well even in Wet Gas Applications

OFTWARE & ALCULATORS



Leomi Terminal Software Version 586.1.0.0



Leomi Software 587.1.0.0



Sensor surface insertion depth calculator



Gas volume (flow rate) calculator



Gas mixture calculator

ESSORIES



Ball Valve



Flange Accessories



Compression Ferrule

