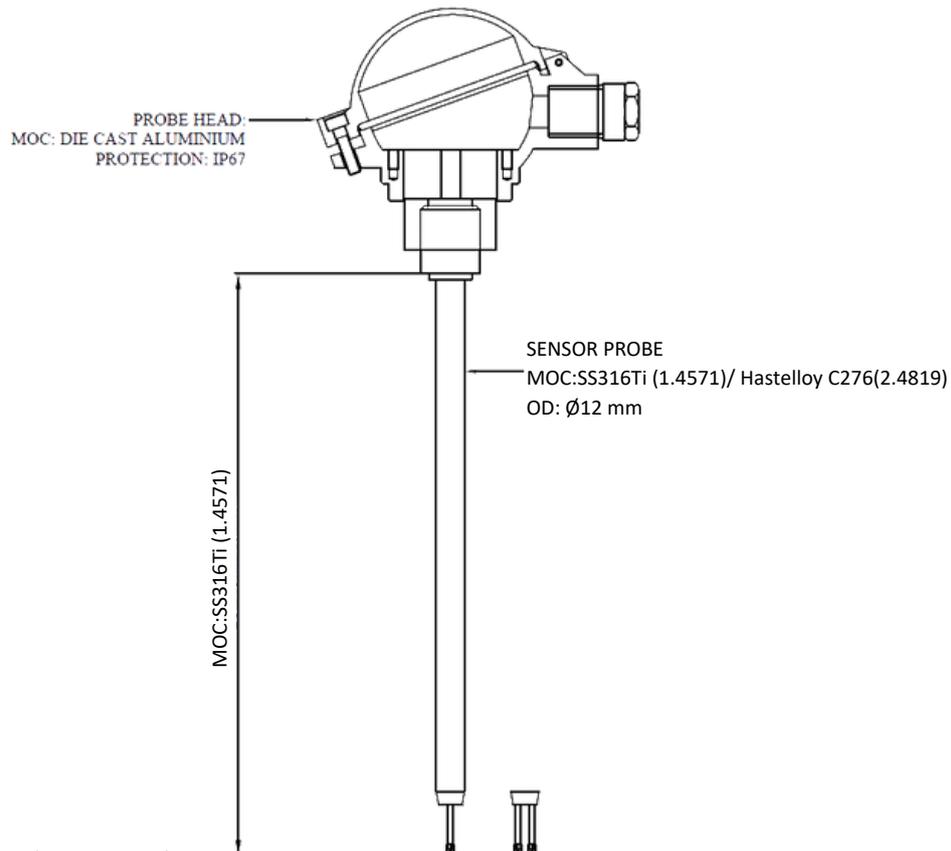


<i>Design</i>	Insertion probe with remote electronic converter
<i>Function Principle</i>	Heat dissipation technique (calorimetric), primary signal mass flow proportional, independent of pressure and temperature
<i>Sensor Details</i>	2 X Pt-100 RTD Sensor Element (4-wire Technique) Diameter : 12mm (Std), 21.34mm, (Optional) Length : 250mm; 500mm; 1000mm (Other upon request)
<i>Sensor Material</i>	SS-316Ti (DIN1.4571)/ Hastelloy C276 (DIN 2.4819), HALAR® & PFA Coating for corrosive gases (optional) (Others consult factory)
<i>Fluids</i>	Air & Process gases
<i>Flow Range</i>	0 – 65 Nm/s (Std); 0 - 150 Nm/s (optional) (Reference as per DIN 1343; 0°C/1.01325 bar(a), 0%RH) (other upon request)
<i>Turndown ratio</i>	100:1 (std); 1000:1 (optional based on application study from the factory)
<i>Stored Calibration Curve</i>	60 points
<i>Accuracy (%)*</i>	±1.5% reading(Std); ±1% reading (Optional) at reference calibration condition
<i>Repeatability (%)</i>	±0.5% of reading
<i>Response time t90</i>	<1.5 secs
<i>Warming Up Time</i>	5min after switching on
<i>Operating temperature</i>	-40°C to +100°C, 0 - 200°C; 0 -300°C; 0 - 400°C
<i>Operating pressure</i>	PN16 (Std). PN40 (Optional), (Higher upon request)
<i>Ambient temperature</i>	-20°C to +60°C
<i>Installation Position</i>	Unrestricted, apart from bottom of pipe to avoid any moisture or particles (Refer operational manual)
<i>Steadying Distance</i>	15 D upstream,5D downstream (where D=Inner diameter of pipe) (std) (Other refer operational manual)
<i>Process connection</i>	SS-316 Compression ferrule fitting for probe: ½" NPT(M) & ¾" NPT(M); Suitable Flange End connection or Retractable assembly upon request (Optional)
<i>Ingress Protection</i>	IP67 (Std); IP67 (Exd certified Zone 1/2, Gas Group IIA, IIB , T6) or better upon request

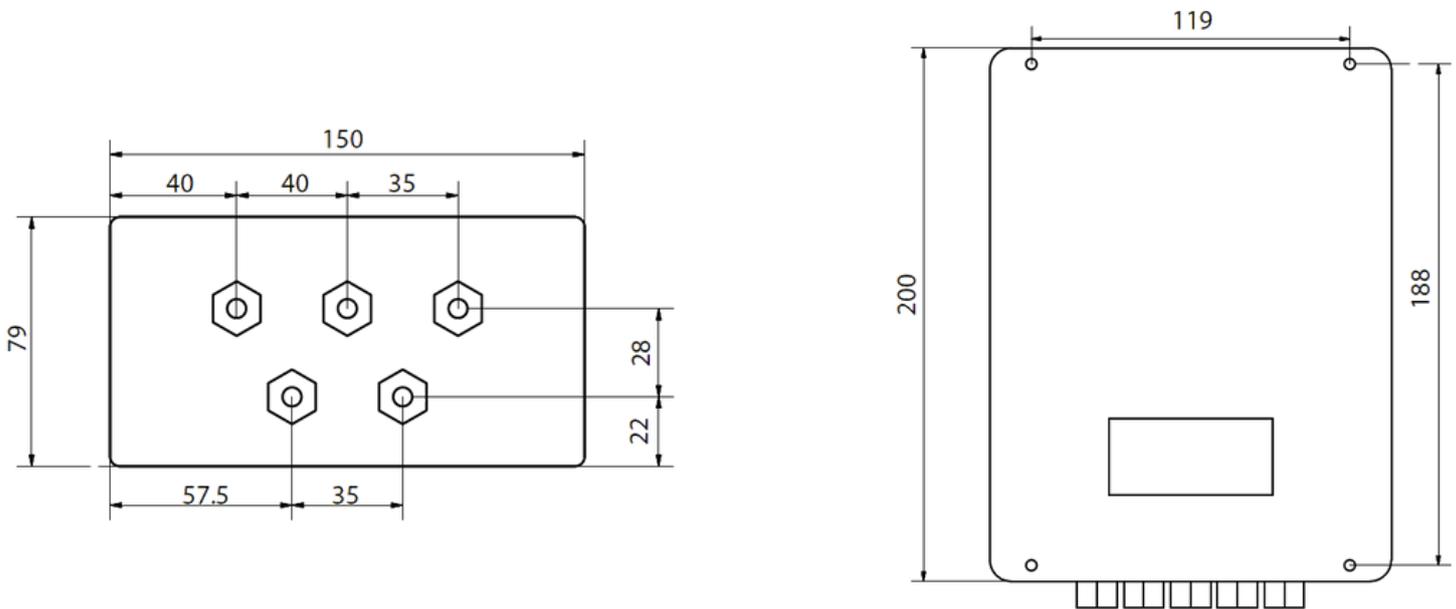
Accuracy Note: unaffected by moisture upto 5% and dust upto 500mg/m3 and can be adjusted with suitable factorisation, consult factory.



Note: HALAR (ECTFE) or PFA Coated sensor probe comes in Flange End connection by default. (Other upon request)

<i>Remote Signal Transmitter</i>	Microprocessor based, complete and automatic compensation of temperature conditioned signal drifting. Digital conductivity compensated adjustment of the heater over temperature
<i>Power Supply</i>	24VDC (18 - 36VDC) OR 100 – 265 VAC@50Hz
<i>Power Consumption</i>	< 10 watts
<i>Display</i>	16 X 4 LCD Backlit Display
<i>Display Indication Values</i>	Mass flow and totalizer, volume flow and totalizer, velocity, temperature, heater temperature with power consumption, temperature difference
<i>Measuring Unit</i>	Mass Flowrate (Kg/hr) Totalizer (Kg); Volume flowrate (Sm ³ /Hr or Nm ³ /Hr or SCFM) & Totalizer (Sm ³ or Nm ³ or SCF) Process Temperature(°C)
<i>Signal Input</i>	1xPt100 heater, four-wire, 1xPt100 reference, four-wire plus ground shield
<i>Signal Output</i>	0/4-20 mADC (Isolated 600Ω) OR 0 -10VDC flowrate proportional; 1 NO/ NC Relay contact @250VAC/6A programmable for Temperature OR Flowrate; Opto-coupler impulse output, RS-485 Modbus RTU (Optional); HART Compatible Output optional (other data converters available on request)
<i>Ingress Protection</i>	IP 65/ IP 66 (NEMA 4X) OR IP 67 (NEMA 6) (Optional)
<i>Enclosure MOC</i>	ABS Plastic/Aluminium Diecast(Std); Aluminium Diecast (IP66) Exd Certified enclosure Zone 1/2, Gas Group IIA, IIB, T6) or better upon request (Optional)
<i>Testing Standards</i>	EMC/EMI compliant as per IEC 61000 as per CE norms
<i>Connecting Cable (Electronic Converter to Probe)</i>	FEP/PTFE (optional) Insulated, 4 pair with shielded ground Length 5m (standard), 10m, 20m, 30m (optional) (Other upon request)
<i>Configuration</i>	Terminal software 586.1.0.0 for data configuration via Desktop/Laptop (Refer operational manual)

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



(Enclosure Dimensions in mm)

Note: Above are the typical enclosure dimensions and drawings, other consult factory

Table: Pipe dimension & flowrates as per DIN 1343 0°C/1.01325 bar(a),0%RH)

mm	15-25	32	40	50	60	80	100	200	300	3000
Nm ³ /h	100	170	260	410	700	1000	1700	6800	15200	1500000

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