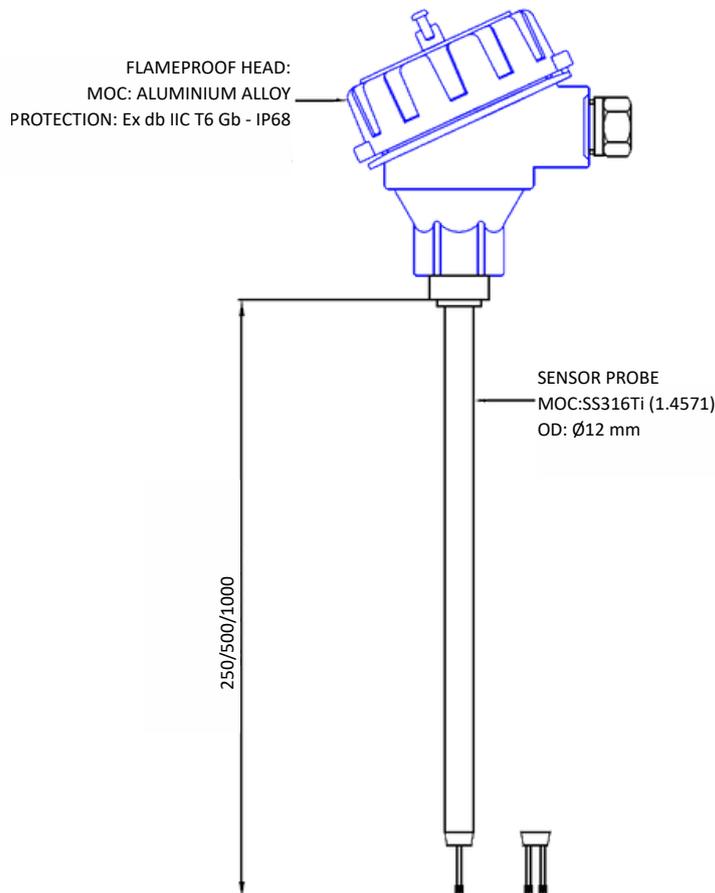


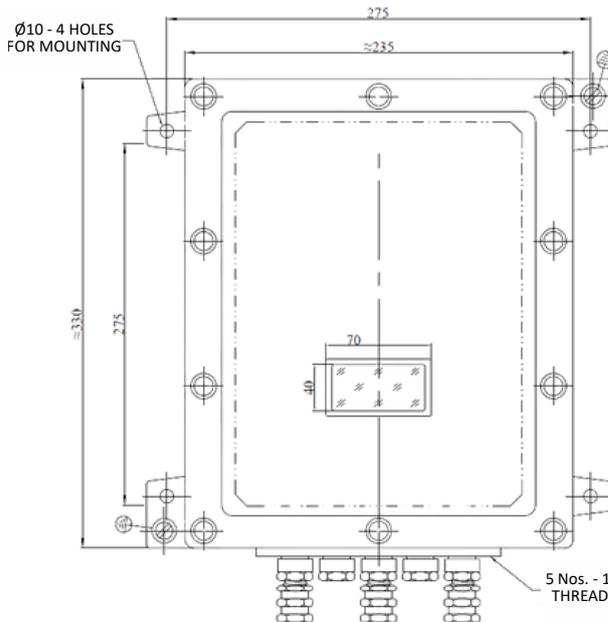
<i>Design</i>	Insertion probe with remote electronic converter
<i>Function Principle</i>	Heat dissipation technique (calorimetric), primary signal mass flow proportional, independent of pressure and temperature
<i>Sensor Details</i>	2 X Pt-100 RTD encapsulated in SS-316Ti (1.4571) tube (4-wire Technique); Diameter:12mm, 21.34mm (Optional) Length: 250mm, 500mm, 1000 mm (Other upon request)
<i>Sensor Material</i>	SS-316Ti (DIN1.4571)
<i>Fluids</i>	Air & Gases
<i>Flow Range Velocity</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>Sensor Protection</i>	Flameproof sensor Probe Head - Zone 1 / 2 Ex db IIC T6 Gb (or Other upon request)

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

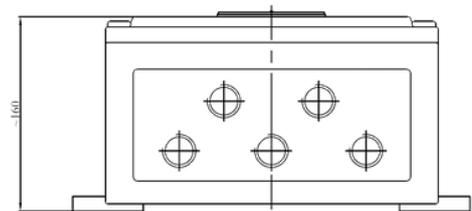


Remote Signal Transmitter	Microprocessor based, complete and automatically compensation of temperature conditioned signal drifting. Digital conductivity compensated adjustment of heater over temperature
Power Supply	24VDC (18 - 36VDC) OR 100 – 265 VAC@50Hz
Power Consumption	< 10 watts
Display	16 X 4 LCD Backlit Display
Display Indication Values	Mass flow and totalizer, volume flow and totalizer, velocity, temperature, heater temperature with power consumption, temperature difference
Measuring Unit	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)
Signal Input	1xPt100 heater, four-wire, 1xPt100 reference, four-wire plus ground shield
Signal Output	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)
Ingress Protection	Sensor probe IP67; Signal Transmitter: IP65(std) / IP66, IP67 (optional) as per IS-60947/IEC-60529 (Other upon request)
Enclosure Protection	Aluminium Diecast (IP66) Exd Certified enclosure Zone 1/2, Gas Group IIA, IIB, T6) or better upon request (Optional)
Enclosure MOC	Al. Alloy 235mm (W) x 330mm(L) x 170mm(H) Ex Proof Enclosure
Testing Standards	EMC/EMI compliant as per IEC 61000 as per CE norms
Connecting Cable (Electronic Converter to Probe)	FEP/PTFE (optional) Insulated, 4 pair with shielded ground Length 5m (standard), 10m, 20m, 30m (optional) (Other upon request)
Electrical Connections	Plugges spring-cage connection for all inputs and outputs (max. 1.0mm ²)

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



SIGNAL EVALUATION UNIT
FLAMEPROOF ENCLOSURE
MOC: DIE CAST ALUMINIUM
PROTECTION: Ex db IIB T6 Gb - IP 65



- 3 Nos. - DC CABLE GLAND Ex db IIC Gb IP68, SS316L
- 2 Nos. - BLIND PLUGS Ex db IIC Gb IP68, SS316L

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
Nm³/h	100	170	260	410	700	1000	1700	6800	15200	1500000

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