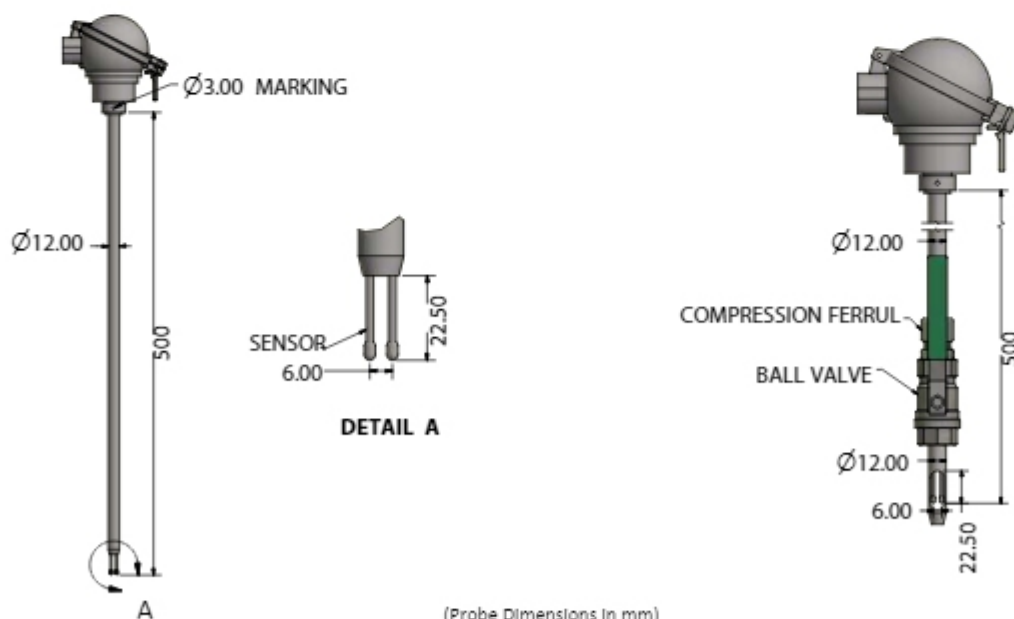
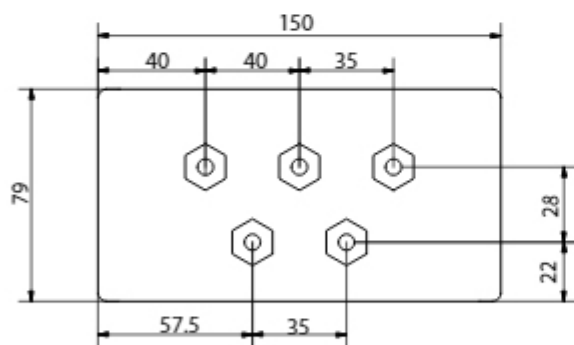


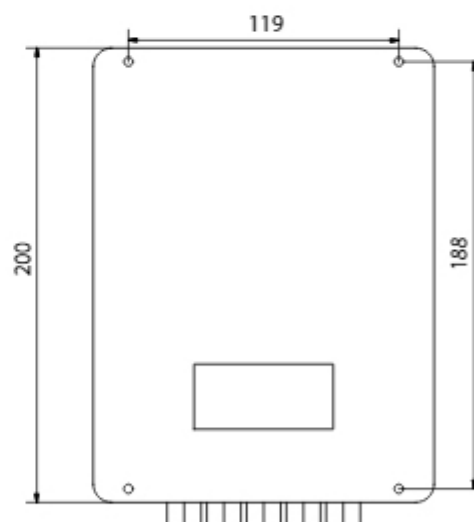
<b>Design</b>	Insertion probe with separate electronic converter (remote control)
<b>Function Principle</b>	Heat dissipation technique (calorimetric), primary signal mass flow proportional, independent of pressure and temperature
<b>Sensor Details</b>	2 X Pt-100 RTD with ceramic wire-wound sensor element (4-wire Technique) Diameter: 12mm / 25mm (Optional) Length: 250mm, 500mm, 1000 mm (Other upon request)
<b>Sensor Material</b>	SS-316Ti (DIN1.4571), HALAR® & PFA Coating for corrosive gases (optional) (Others consult factory)
<b>Fluids</b>	Air & Gases
<b>Flow Range</b>	0.6 – 65 Nm/s (std), 0.6 -150 Nm/s (optional) (with extrapolation above 65 Nm/s) (Reference as per DIN 1343; 0°C/1.01325 bar(a),0%RH) (other upon request)
<b>Turndown ratio</b>	100 : 1
<b>Stored Calibration Curve</b>	60 points, firmware internal Spline interpolation
<b>Accuracy (%)*</b>	±1.5% reading (-40°C-100°C); ±2.0% reading (0°C - 200°C/300°C/400°C) at reference calibration conditions upto 75 m/s
<b>Repeatability (%)</b>	±0.5% of reading
<b>Response time t90</b>	<1.5 secs
<b>Warming Up Time</b>	5min after switching on
<b>Operating temperature</b>	-40°C to +100°C, 0 - 200°C; 0 -300°C; 0 - 400°C
<b>Operating pressure</b>	16bar(g) Max. PN16 (Higher upon request)
<b>Ambient temperature</b>	-20°C to +60°C
<b>Installation Position</b>	Unrestricted, apart from bottom of pipe to avoid any moisture or particles
<b>Steadying Distance</b>	20 D upstream, 5D downstream (where D=Inner diameter of pipe) (Minimum steadying distance depends upon the application. Longer steadying distances have to be considered, if double elbows or partly closed valves have been installed in front of the unit) <b>(Note: Suitable flow straightener is recommended for short steadying distance)</b>
<b>Process connection</b>	½" BSP(M) SS-316 Compression Ferrule; ½" Full port ball-valve (optional) (Other upon request)



<i>Remote Signal Transmitter</i>	Microprocessor based, complete and automatically compensation of temperature conditioned signal drifting. Digital conductivity compensated adjustment of heater over temperature
<i>Power Supply</i>	24VDC (18 - 36VDC) OR 100 – 265 VAC@50Hz
<i>Power Consumption</i>	< 5 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 (Nm <sup>3</sup> /Hr or SCFM) & Totalizer (Nm <sup>3</sup> or SCF) & Process Temperature (°C)
<i>Signal Input</i>	1xPt100 heater, four-wire technique, 1xPt100 reference, four-wire technique
<i>Signal Output</i>	0/4-20 mA DC (Isolated @500Ω) OR 0 -10VDC flowrate proportional; 1 NO / NC Relay contact @ 250VAC / 6A. programmable for Temperature OR Flowrate, Opto-coupler impulse output, other data available on request
<i>Ingress Protection</i>	Sensor probe as per IP67; Signal Transmitter: IP65(std)/ IP66(optional) (Other upon request)
<i>Enclosure Protection</i>	Flameproof Gas Group IIA, IIB, T4 (Optional) (Other consult factory)
<i>Enclosure MOC</i>	ABS Plastic 150mm(W) x 200mm(L) x 79mm(H) (standard); Aluminum Diecast 160mm(W) x 260mm(L) x 91(H); (other upon request)
<i>As per CE complaints</i>	Low tension instruction 73/23/EEC / EMC-Standard 89/336/EEC
<i>Connecting Cable (Electronic Converter to Probe)</i>	FEP/PTFE (optional) Insulated, Length 5m (standard), 10m (optional), (Other upon request)
<i>Electrical Connections</i>	Plugged spring-cage connection for all inputs and outputs (max.1,0mm <sup>2</sup> )



(Enclosure Dimensions In mm)



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

mm	15-25	32	40	50	65	80	100	200	300	3000
Nm <sup>3</sup> /h	100	170	260	410	700	1000	1700	6800	15200	1500000

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

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