

### iSonic - Technical Data

Path Arrangement		6 paths – Cross Configuration 8 paths– Cross Configuration
Size		3" to 16" (Standard) other sizes on request
Measurement Principle		transit time
Repeatability		≤0.05% (standard calibration)
Accuracy		Class 0.5
Pipe requirements	with flow conditioner	Upstream straight length≥5D, Downstream straight length≥3D
	no flow conditioner	Upstream straight length≥10D, Downstream straight pipe≥5D
Gas Temperature Range		-40 °C to +110 °C
Pressure Range		0 psig to 2250 psig (Standard 150#, 300#, 600#, 900#) 0 psig to 3750 psig (Extended 1500#)
Ingress protection		IP67
<b>Environment</b>		
Ambient temperature		-40 °C ~ +70 °C
storage temperature		-40 °C ~ +70 °C
Ambient humidity		≤95%, non-condensing
<b>Conformities and Ex-approvals</b>		
Conformities		OIMLR 137-1&2:2012      ISO 17089-1      ATEX: 2014/34/EU AGA-Report No. 9
Hazardous Approvals		ATEX/IECEX Exd ia IIB+H2 T4...T6  NEC/CEC (US/CA) Explosion-proof / Intrinsically Safe: Class I, Div. 1 Groups B, C, D, T4...T6
<b>Inputs/Outputs</b>		
Analog Outputs	2	4 to 20mA, electrically isolated
Analog Inputs	2	4 to 20mA
Digital Outputs	4	2 x status, 2 x pulse $f_{max} = 10\text{kHz}$  passive, electrically isolated, internal or external power, open collector
Communication Ports	RS485	Modbus RTU 3 x RS485
	Ethernet	1 x Ethernet 1 x Wi-Fi
	Cloud communication	4G
<b>Power</b>		
Voltage		12-30 VDC
power consumption		2.8W, (during 4G communication 6W)
<b>Data Storage</b>		
Archived data	Meter	Every Minute (10,000 items) Hourly (10,000 items) Daily (5,000 items)
	Cloud	Every Minute (10,000 items), on demand Hourly (no limit) Daily (no limit)
Alarm/Event Log	Meter	Event Log (10,000 events) Parameter modification Log (1,000 modifications) Alarm Log (1,000 alarms)
	Cloud	Event Log (no limit) Parameter Modification Log (no limit) Alarms Log (no limit)