



MEASURING UNIT SPECIFICATIONS

Nominal Pipe Diameter DN	25mm
Connection Size	BS 746 1 Inch
Capacity At Q Min	0.12 m ³ /h
Capacity At Q Max	6.00 m ³ /h
Cyclic Volume	0.002 m ³ (2 Litres)
Pressure Loss At Q Max	< 2.0 mBar Air
Maximum Pressure	75 mBar
Diaphragm Unit	-10°C to +40°C
Storage Temperature Range	-25°C to +55°C (in order to preserve battery life the recommended storage temperature is 5°C - 25°C)
Connections Centres	152.4 mm
Total Height	285 mm
Total Width	230 mm
Total Depth	165 mm

Alarms	<ul style="list-style-type: none"> • Battery Voltage Below Threshold. (Threshold Programmable). • Battery Capacity Exhausted. (Capacity Programmable). • Valve Status. • Error Recording. • Last 16 Alarm events stored with Alarm Type, Time Stamps and Register Values.
Battery	<ul style="list-style-type: none"> • 3.6V Lithium Thionyl Chloride. • Non-Rechargeable. • 10 Year Life. • Cannot be changed on site. • Battery Voltage Measurement (to 0.001 Volts). • Battery Used Capacity Measurement (nano Amp).
Communications	<ul style="list-style-type: none"> • Fibre Optic Through To Converter Box. • Baud Rate 9600. • Bi-directional. • Scheduled Daily Data Transmission Events. • On Demand Reading. • 128 Bit Randomly Generated Encryption Access Key (No Two Communication Sessions Are Identical). • CRC Packet Checksums.
Data Storage (Internal)	<ul style="list-style-type: none"> • With 24 Hour Integration Periods, 264 Days. • With 1 Hour Integration Periods, 11 Days
Firmware	<ul style="list-style-type: none"> • Legal Version Displayed. • Legal Checksum Displayed. • Remote Upgrade Of Non-Legal Firmware.
Fraud Reporting	<ul style="list-style-type: none"> • Unexpected Reset. (When Occurred). • Magnetic Tamper. (Started & Stopped). • Valve Bypass. (Started & Stopped). • Excess Gas Flow (> Q Max.). (Started & Stopped). • Optional Silicon Positional Tamper Detection. (Started & Stopped). • Last 32 Fraud Events Stored With Fraud Type, Time Stamps And Register Values.
Instantaneous Gas Flow Measurement	<ul style="list-style-type: none"> • Stored To 0.2 Litre Resolution (0.0002 m³). • Displayed To 1 Litre Resolution (0.001 m³). • 1 Minute Integration Period.
Integration Periods Of Load Profiling	<ul style="list-style-type: none"> • 1 Hour. • 24 Hours.
On Demand Reading	<ul style="list-style-type: none"> • Total Register. Resolution (0.0002 m³). • Instantaneous Gas Flow. Resolution (0.0002 m³). • Most Configuration Items. • Alarm Data. • Fraud Data. • Historical Data. (Change Of Tenancy / Supplier).
Prepayment (Optional)	<ul style="list-style-type: none"> • Internal Solenoid Valve. • Remote Disconnection. • Remote Connect Command (User Must Perform Connection).
Programmable Settings (In Operation)	<ul style="list-style-type: none"> • LCD On Time After Button Press. (Battery Life).
Register	<ul style="list-style-type: none"> • 5+3 m³ Register or 4+4 m³ Register (For Testing). • Register Stored To 0.2 Litre Resolution (0.0002 m³).
Serial Number	<ul style="list-style-type: none"> • Up To 8 Digits Displayed. • Prefix and suffix stored in memory.
Safety	<ul style="list-style-type: none"> • Intrinsically Safe Fibre Optic Communications. • ATEX Category 3 Approval. • Suitable For Use In Zone 2 Of EN600079-10. • Firmware Cannot Open Valve Directly, Requires Customer Also. • When there is a Battery Alarm, the Valve will close. • Detection of gas appliances left on within 18 seconds at 40 litres/hour flow rate.
Index Temperature Rating	<ul style="list-style-type: none"> • -25°C to +55°C.
Time / Date	<ul style="list-style-type: none"> • Accurate To 0.5 Seconds Per Day (At 23°C). • Remote Programming. • Daylight Saving Time. (All Register Readings In GMT).
Ingress Protection	<ul style="list-style-type: none"> • IP54