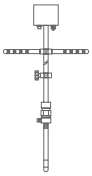
PRIME
AN OVARRO TECHNOLOGY



PRIMEPROBE

Bi-directional, insertion, electromagnetic flowmeter for permanent or portable use

Pipe sizes	80mm to >2000mm. Maximum size dependant on position in pipe (for pipe sizes ≤150mm accuracy can be improved by special calibration at the specified pipe size).	
Measurement range	Bi-directional from 0.02m/s to 5m/sec (maximum may be lower dependent upon insertion length and position in pipe)	
Accuracy	Point velocity ≥0.4m/s; ±2%	
(See Note 1 below)	Point velocity <0.4m/s; ±0.8/V% (V = measured water velocity)	
Flow determination	Assumes developed profile (determine via Flow Profiling Software)	
Response time	Liquid speed step variations >0.25m/s;	Liquid speed step variations <=0.25m/s;
Continuous mode	300ms	6s
SMART mode	3s	60s
Average mode	6s	120s
Maximum life mode	15s	300s
Minimum fluid conductivity	20µS/cm	
Process connection	1 inch (25mm) BSP threaded end	
Pipeline Pressure rating	25 Bar	
Sensor material	Peek	
Body/electrodes material	Stainless steel AISI 316	
Liquid temperature range	0°C to 60°C	
Safety	Probe fitted with safety/anti-bounce chain	
Pressure tapping	Female quick-release connector	
Adjustment method	5mm Allen key (supplied) fits all screws	
Protection	IP68 (to 1 metre depth)	
Battery type	2 x Lithium cells size D (non-rechargeable)	
Battery life		
Continuous mode	7.8 months	
SMART mode	4.8 years	
Average mode	>8 years	
Maximum life mode	>10 years	
Output signal	Pulses proportional to velocity/flow-rate (max. frequency 100 Hz)	
Communications	USB	
Materials certification	WRAS drinking water material Approval Number 1205543 ACS Approval Number 16ACC LY 116	

DIMENSIONS IN DETAIL

Nominal probe size	150mm	300mm	500mm	700mm	1000mm	2000mm
Internal ref	0	1	2	3	4	5
Ref	RXG731	RXG732	RXG733	RXG734	RXG735	RXG736
Height of transmitter w/o connector	96mm	96mm	96mm	96mm	96mm	96mm
Height of connector below transmitter	25mm	25mm	25mm	25mm	25mm	25mm
Height of adjustable indicator	20mm	20mm	20mm	20mm	20mm	20mm
Distance of electrodes from tip	30mm	30mm	30mm	30mm	30mm	30mm
Mounting collar BSP/NPT	108mm	108mm	108mm	108mm	108mm	108mm
Maximum insertion length	359mm	509mm	709mm	909mm	1209mm	2209mm
Total length	638mm	788mm	988mm	1188mm	1488mm	2488mm

Note 1; Reference conditions:
a) Constant flow rate during the test
b) Pressure: >30 kPa
c) Flow condition : fully developed flow profile
d) Zero stability +/- 0,005 %
e) Pipe internal diameter accuracy: mean value better than 1%