PORTAFLOW 220/330 Portable Ultrasonic Flowmeter +GF+





The Portaflow range brings simplicity to the non-invasive measurement of liquid flow. Portaflow offers the user quick and accurate flow measurement with its easy to follow menu and simple set up. Results can be achieved within minutes of opening the case. Compact, rugged and reliable, the Portaflow range has been designed to provide sustained performance in industrial environments.

Features

- Large, easy to read graphic display with backlighting
- Easy to install thanks to flexible guide rails
- Rechargeable battery for up to 20 hours mobile operation
- Simple to follow dual function keypad
- Simple 'Quick Start' set up procedure
- Data logger for 198k data points (Type PF330)
- Analog and pulse outputs



Applications

- Potable Water
- River Water
- Cooling Water
- Demineralized Water
- Water/Glycol Solutions
- Chemicals
 - Leak Detection
 - Boiler Testing

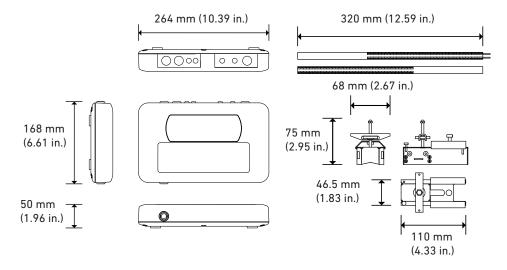
Specifications

DCD Mascurament To						
DSP Measurement Technique		Transit time				
Flow Velocity Range		0.1 m/s - 20 m/s				
Accuracy		Pipe ID >75 mm	±0.5% to ±2% of flow reading for flow rate >0.2 m/s			
		Pipe ID 13 mm - 75 mm	3			
		All pipe ID's ±6% of flow reading for flow rate <0.2 m/s				
Repeatability		±0.5% of measured value or ±0.02 m/s whichever is the greater				
Response Time		< 500 ms depending on pipe diameter				
Selectable Flow Units		Velocity m/sec, ft/sec.				
		Volume	"l/s, l/min, l/h, gal/min, gal/h, USgals/min, USgals/h, Barrel/h Barrel/day, m³/s, m³/min, m³/h"			
Selectable Total Volume Units		liter, gallon, US gallons, Barrel, m ³				
Total Volume		12 digits				
Menu Languages		EN, DE, FR, RU, SWE, IT,	, SP, P, NO, DEN			
Environmental						
Operating Temperatu	ıre	-20 °C to 50 °C	-4 °F to 122 °F			
Storage Temperature		-25 °C to 65 °C	-13 °F to 149 °F			
Pipe Wall Temperatu		-20 °C to 135 °C	-4 °F to 275 °F			
Operating Humidity		Max. 90% relative humidity @ 50°C (122 °F)				
Applicable Pipe Type	es					
Pipe Materials		PVDF-SYGEF, PP-PROGEF, PE-ELGEF, PB-INSTAFLEX, ABS, PVC-U/PVC-C, Mild Steel, Ductile Iron, Stainless Steel 316, Copper				
Pipe Dimension (OD)	Type PF220	13 mm to 1000 mm	0.5 in. to 39 in.			
	Type PF330	13 mm to 2000 mm	0.5 in. to 78 in.			
Pipe Wall Thickness		1 mm to 75 mm	0.04 in. to 3 in.			
Pipe Lining		Applicable pipe linings include Rubber, Glass, Concrete, Epoxy, Steel				
Pipe Lining Thicknes	S	0 mm to 10 mm	0 in. to 0.4 in.			
Electrical						
Supply Voltage		9 to 24 V DC				
Power Consumption		Max. 10.5 W				
Battery						
	Technology	5-cell NiMH				
	Capacity	3.8 Ah				
	Operating Time (typical)	Typically 20 hours continuous with backlight and 4-20mA output OFF				
	Recharge Time	6.5 h				
	Service Life	>500 charge/discharge	cycles			
Power supply						
Input Voltage		90 to 264 V AC (47 to 63 Hz)				
Output Voltage		12 V DC				
Output Current Max.		1.5 A				
Approvals		UL, CUL, TUV, CB, CE				
Outputs	Pango	4 to 20 mA, 0 to 20 mA,	0 to 14 mA			
Analog Output	Range Resolution	0.1% of full scale	U TO TIM			
	Load Max.					
	Isolation	620 Ω 1500 V Opto-isolated				
	Alarm Current	Adjustable between 0 to 26mA				
Pulse Output	Type	Digital MOSFET relay	, 2011111			
ruise output	Pulse Repetition	Max. 500 pps, user programmable				
	Pulse Width	5 - 500 ms, user programmable				
	Voltage Max.	48 V				
	Current Max.	500 mA				
	Isolation	1500 V opto isolated				
USB Interface	Protocol	Supports full speed (12Mbits/sec) data connection				
		USB driver software is provided with the package				
	Software	USB driver software is i	Proprietary industrial connector			
USB Interface (PF330 only)	Software Connector	<u> </u>				
	Software Connector Protocol	Proprietary industrial co				

Specifications (continued)

Data Logger (PF330 only	у					
Data Logged		Log application details, flow rate, total flow, unit, time stamp				
Number of Data Points		198 k				
Number of Data Sites		20				
Number of Data Points per Site		No limit (max. 198k)				
Programmable Logging	Interval	5 s - 1 h				
Start / Stop		Manually or timer controlled				
Data Download		Via RS-232 / USB interface				
Transducer Sets						
Type A		Type PF220 & PF330	13 - 114 mm pipe O.D. (2MHz)			
Type B		Type PF220	115 - 1000 mm pipe 0.D. (1MHz)			
		Type PF330	115 - 2000 mm pipe O.D. (1MHz)			
Enclosure and Display						
Material		ABS				
Dimensions		264 x 168 x 50 mm	10.4 x 6.6 x 2.0 inch			
Weight		1.1 kg (incl. battery)	2.45 lb			
Keypad		16 key tactile feedback membrane keypad				
Display	Туре	240 x 64 pixel graphic display, high contrast black-on-white, with backlight				
	Viewing angle	Min. 30°, typically 40°				
	Active area	127 x 34 mm	5 x 1.3 inch			
IP Rating		IP 54				
Shipping Weight						
		PF330		PF220		
Box dimensions	420 x 390 x 220 mm	16.5 x 15.4 x 8.7 inch	510 x 140 x 440 mm	20 x 5.5 x 17.3 inch		
Weight	7.5 kg	16.5 lb	6 kg	13.2 lb		
Volumetric Weight	5.7 kg	12.5 lb	5.2 kg	11.5 lb		
Standards and Approva	ls					
	CE, RoHS compliant					
	Safety	BS EN 61010				
	EMC	BS EN 61326 - 1:2006	BS EN 61326-2-3:2006			
	Power Supply	EN61204 - 3	UL, CUL, TUV, CB, CE			

Dimensions





The Portaflow 220 equipment is supplied in a Polypropylene carrying case fitted with a foam insert to give added protection for transportation.



The Portaflow 330 equipment is supplied in a rugged IP67 carrying case fitted with a foam insert to give added protection for transportation.

Ordering Information

