

The Portaflow 204 Transit

Time, clamp-on ultrasonic

flow meter has been

designed to help

Service/Maintenance and

commissioning Engineers

make quick, accurate

flow readings of any

liquid, with pipes from

13mm to 115mm NB.

This compact rugged instrument gives a readout of velocity or volumetric flow rate and a total flow in litres and gallons. There is no shut down time, lost production or contact with process liquid when making the measurement, as the instrument is completely non-invasive.

Simple to set up, the Portaflow 204plus! is able to measure flow from 0.02 metres/sec up to 8 metres/sec. It is able to measure flow on almost any clear liquids such as water, oils and chemicals, in any pipe material over temperature range of -20° C to $+125^{\circ}$ C.

Set up is menu driven with the user entering the pipe dimensions, material and temperature. When measuring liquids other than water, speed of sound data must be entered. Programming the instrument and mounting the transducers using the hardware provided, can be completed in under 2 minutes, with stable flow data becoming available immediately.

The unit powered by mains (110/240V) or the internal Ni-Cad rechargeable battery pack, giving an operating life of 8 hours. Thoroughly reliable with a rapid response time of one or two

Thoroughly reliable with a rapid response time of one or two seconds, the Portaflow 204 is an unbeatable instrument for fast and accurate flow measurements.



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PORTAFLOW 204plus! Specification

Electronic Enclosure		
	Outside dimensions	: 236 x 125 x 41mm
	Protection class	: IP40
	Material	: ABS
	Total weight complete	: <1.5Kgs
	Operating temperature	: 0°C to + 50°C
	Storage temperature	:-10°C to +60°C
	Data input	: Via 15 Key tactile membrane keypad
Supply Voltage		
	Power supply/charger	: Mains supply 110-230V AC±10% @ 50/60Hz Max 9 watts
	Battery type	: 4 x AA rechargeable Ni-Cad batteries
	Battery life	: 10 hrs continuous operation on fully charge battery cells
0.1.1.0.1.		
Output Data	Volumetrie unite	Litros gallons/Imposial and UC\ m3
Flow Display	Volumetric units	: litres, gallons(Imperial and US),m³
	(7 Significant Figures-2 decimal place Velocity units	
	Total volume	: feet/sec, metres/sec : litres, gallons (Imperial and US), m³
	(7 Digits-2 decimal places)	. littes, gallons (imperial and 03), in
Pulse Output	0-5 Volts	: Maximum 1 pulse per second
· · · · · · · · · · · · · · · · · · ·	4-20mA into 750 Ohms	: User definable scaling
Analogue Flow Range	4-2011A 111to 730 OTITIS	. Osei deliliable scallig
low harige	D'	0.02
	Pipe size 115mm	: 0.02 metres/sec to 4 metres/sec
	Pipe size 13mm : 0.2 metres/sec to 8 metres/sec	
	Minimum and maximum velocity dep	pendent on the pipe size
Transducer		
	Temperature range	:-20°C to +125°C
	Guide rail size	: 210mm x 36mm x 27mm
	Cable length	: 2 metres
Pipe Range		
	13mm to 115mm nominal bore	
Pipe Material		
	Any sonic conducting medium such as Carbon Steel, Stainless steel, copper, UPVC, PVDF, Concrete, Galvanised Steel, Mild Steel, Glass, Brass	
Accuracy		
,	1%3% or 0.02 m/sec whichever is t with Reynolds numbers above 4000	he greater. The specification assumes turbulent flow profile
Repeatability		
перешимпту	±0.5% with unchanged transducer po	osition
Response Time		
	Less than 2 seconds	
	Micronics reserve the right to alter an	y specification without notification