



The Portaflow 216 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

50mm to 400mm 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 216 is able to measure flow from 0.5 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  $-20^{\circ}$ 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 10 hours.

Thoroughly reliable with a rapid response time of one or two seconds, the Portaflow 216 is an unbeatable instrument for fast and accurate flow measurements.



## micronics

## PORTAFLOW 216 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 16 Key tactile membrane keypad
Supply Voltage		
Juppiy Tollage	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
Output Data		II. II. (1.115)
Flow Display	Volumetric units	: litres, gallons(Imperial and US),m <sup>3</sup>
	(7 Significant Figures-2 decimal places)	
	Velocity units	: feet/sec, metres/sec
	Total volume	: litres, gallons (Imperial and US), m <sup>3</sup>
	(7 Digits-2 decimal places)	
Pulse Output	0-5 Volts	: Maximum 1 pulse per second
Analogue	4-20mA into 750 Ohms	: User definable scaling
-low Range		
	Pipe size 400mm	: 0.5 metres/sec to 4 metres/sec
	Pipe size 50mm	: 0.5 metres/sec to 8 metres/sec
	Minimum and maximum velocity dependent	
 Transducer		
	Temperature range	:-20°C to +125°C
	Guide rail size	: 395mm x 33mm x 42mm
	Cable length	: 2 metres
Pipe Range		
	50mm to 400mm nominal bore	
Pipe Material	A	Charl Christer that account HDVC DVDE Consucts
	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 the greater. The specification assumes turbulent flow profile with Reynolds numbers above 4000	
Repeatability		
	±0.5% with unchanged transducer position	
Response Time	Less than 2 seconds	
		Section without notification
	Micronics reserve the right to alter any specif	ication without notification

