

# Minisonic P

ULTRASONIC PORTABLE FLOW METER



MEDIA  
MEASURED  
LIQUIDS



PIPE DIAMETERS  
UP TO  
3 300MM



MODELS  
STANDARD  
DUAL PIPE  
DUAL CHORD

## COMPACT

- > Light weight (less than 1kg)
- > Easy to use

## RELIABLE AND ROBUST

- > Long battery life (35hr continuous)
- > Automatic zero calibration
- > Signal quality display
- > IP67 ABS enclosure

## SIMPLE

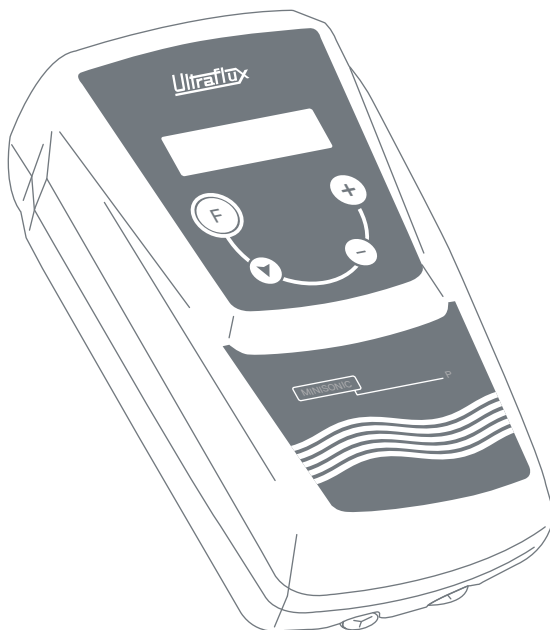
- > Quick and easy installation (typically less than 5 minutes) with easy to use probes supports
- > Intuitive operation

## HIGH PERFORMANCE

- > Accurate up to 0.5%
- > Repeatability up to 0.1%
- > Up to two flow calculations per second

## MULTIPLE USES

- > On every type of homogeneous liquid - even non-conductive
- > Non ideal flow conditions taken into account



## TYPICAL APPLICATIONS

**Water** (drinking, waste, untreated):  
Pump flow control

**Climate engineering:**  
System balancing

**Pharmaceutical sector:**  
Ultrapure water flows

**Fire installation** (sprinklers):  
flow control

\* APPLICATION CONDITIONS: PLEASE CONTACT US

# Ultraflux



EXPERT IN FLOW METERS  
SINCE 1974

# Minisonic P

MODEL	STANDARD	DUAL PIPE (IDENTICAL PROBES)	DUAL CHORD
NATURE OF EQUIPMENT	Portable		
MEASUREMENT ON PIPE UNDER LOAD	Yes		
FLOW MEASUREMENT ON OPEN CHANNEL	No		
INTERNAL Ø OF PIPE	From 8mm to 3,200mm (depending on wall thickness)		
EXTERNAL Ø OF PIPE	From 10mm to 3,300mm		
INPUTS/OUTPUTS	> 2 active current outputs, 4-20mA (impedance 150Ω) > 2 static relay outputs (100V - 100mA - 10VA max)		
USE	Flow measurement	Flow measurement in two pipes	Flow measurement with two speed chords
SINGLE OR DUAL PIPE	Single pipe	Dual pipe: for two pipes that might have different diameters and thicknesses, be made of different materials, but which must use same probes	Single pipe
SINGLE OR DUAL CHORD	Single chord	Single chord	Dual chord
DISPLAY	> Alphanumeric and graphical (2 lines x 16 characters) > Backlit LCD screen with time delay feature		
SET-UP	> Quick and simple using 4-key touch pad - or - via dedicated software supplied > Possible to build in an access code		
INFORMATION COLLECTION	> Either by current output connected to an external logger (USB LOGGER option) > Or by a serial link connected to the computer (Excel macro built into the Ultraflux software)		
OPERATING SYSTEM	Windows for set-up and saving application data		
7 LANGUAGES	French • English • German • Portuguese • Spanish • Italian • Polish		
BATTERY LIFE	Up to 40hr (charging takes 12 to 14hr)		
SERIAL LINK	RS232 to JBUS/MODBUS protocol • 9600 Bauds		
ACCESSORY (OPTIONAL)	1 RS232 to USB converter link cable		
ELECTRICAL CHARACTERISTICS	> 12V NiMh sealed battery > Charger with input: 100-240V ac / 400mA / 47-63Hz and output: 15V / 1A > Cable for auxiliary power supply available as an option		
ENCLOSURE	ABS, supplied with a slip case and storage bag • 835g • 220 x 115 x 64mm		
PROTECTION	IP67		
TEMPERATURE RANGE	For use from 0°C to 50°C		

TECHNOLOGY	PERFORMANCES			
<b>ULTRASONIC TRANSIT TIME</b> > Continuous bidirectional measurement  <b>SIGNAL ANALYSIS</b> > By Echo Shape Control (optimisation of the acoustic signal)	<b>ACCURACY</b> > Up to 0.5%  <b>REPEATABILITY</b> > Up to 0.1%  <b>LINEARITY</b> > Up to 0.1%	<b>TEMPORAL RESOLUTION</b> > Better than 0.1ns  <b>TIME BETWEEN EACH FLOW CALCULATION</b> > 500ms	<b>UNITS OF MEASUREMENT</b> > From litres per second to cubic metres per day  <b>VOLUME METERING</b> > From a centilitre up to 100 cubic metres	<b>OTHER IMPORTANT INFORMATION</b> > Laminar and turbulent transitions considered (calculation of the Reynolds number) - except for parallel chords > Freedom to mount probes: modes /, V, N and W

NON CONTRACTUAL DOCUMENT

