

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

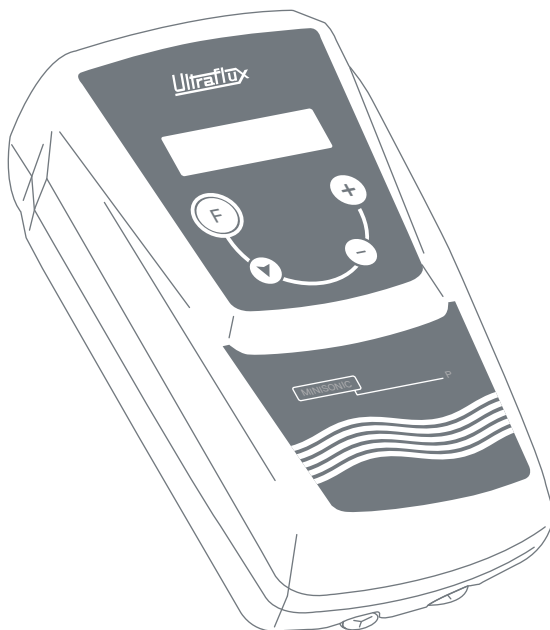
- > Quick and easy installation (typically less than 5 minutes) with easy to use probes supports
- > Intuitive operation

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 | | | |
|---|---|---|---|--|
| ULTRASONIC TRANSIT TIME > Continuous bidirectional measurement SIGNAL ANALYSIS > By Echo Shape Control (optimisation of the acoustic signal) | ACCURACY > Up to 0.5% REPEATABILITY > Up to 0.1% LINEARITY > Up to 0.1% | TEMPORAL RESOLUTION > Better than 0.1ns TIME BETWEEN EACH FLOW CALCULATION > 500ms | UNITS OF MEASUREMENT > From litres per second to cubic metres per day VOLUME METERING > From a centilitre up to 100 cubic metres | OTHER IMPORTANT INFORMATION > 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

