

# Minisonic 600

ULTRASONIC FIXED FLOW METER



MEDIA  
MEASURED  
LIQUIDS



PIPE DIAMETERS  
UP TO  
630MM



MODELS  
STANDARD  
DUAL PIPE  
DUAL CHORD

## SIMPLE

- > Quick and easy installation
- > Intuitive operation

## GREAT BENEFITS

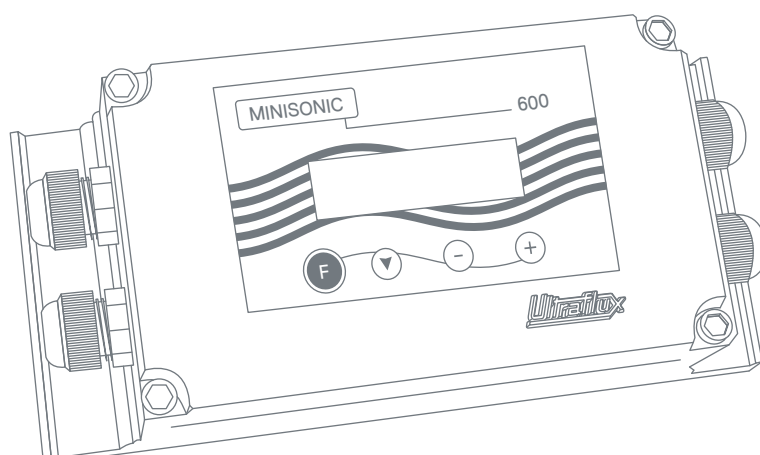
- > Low installation cost
- > No mechanical wear: little or no maintenance

## RELIABLE AND ROBUST

- > Automatic zero calibration
- > Signal quality display
- > IP67 cast aluminium enclosure

## FLEXIBLE

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



## TYPICAL APPLICATIONS

### Drinking water:

Flow measurement and metering in treatment works, abstraction metering, system control

### Waste water:

Flow measurement at pumping stations, in systems, at intakes/outlets in treatment works

### Raw water:

Flow measurement in fire mains, system supervision

### Chemical products:

Flow measurement for acids, chlorides

### Pharmaceutical sector, including aggressive liquids:

Ultrapure water flows

Automotive, food and farming, energy...



# Minisonic 600

MODEL	STANDARD	DUAL PIPE (IDENTICAL PROBES)	DUAL CHORD
NATURE OF EQUIPMENT	Fixed		
MEASUREMENT ON PIPE UNDER LOAD	Yes		
FLOW MEASUREMENT ON OPEN CHANNEL	No		
INTERNAL Ø OF PIPE	From 8mm to 600mm approximately (depending on wall thickness)		
EXTERNAL Ø OF PIPE	From 10mm to 630mm		
INPUTS/OUTPUTS	> 2 current outputs, 4-20mA (1000Ω galvanically isolated as a passive output/impedance of 150Ω as an active output) > 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		
OPERATING SYSTEM	Windows for set-up and saving application data		
7 LANGUAGES	French · English · German · Portuguese · Spanish · Italian · Polish		
SERIAL LINK	RS232 or RS485 to JBUS/MODBUS protocol · 9600 Bauds		
ACCESSORY (OPTIONAL)	1 RS232 to USB converter link cable		
BASIC POWER SUPPLY	Low voltage: 9-36V dc or 7-25V ac (5VA)		
OPTIONAL POWER SUPPLY	18-72V dc or 90-230V ac (5VA)		
ENCLOSURE	Cast aluminium & epoxy paint · 1.5kg · 237 x 108 x 79mm		
PROTECTION	IP67		
TEMPERATURE RANGE	For use from 0°C to 50°C (60°C on demand)		

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

