NISONIC FIXED FLOW METER



MEDIA MEASURED LIQUIDS \bigcirc

PIPE DIAMETERS UP TO 630MM



MODELS STANDARD DUAL PIPE DUAL CHORD

SIMPLE

- > Quick and easy installation
- > Intuitive operation



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



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

FLEXIBLE

 On every type of homogeneous liquid even non-conductive

FULL PIPE

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 agressive liquids: Ultrapure water flows

Automotive, food

and farming, energy...



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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	Νο					
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				
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	



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