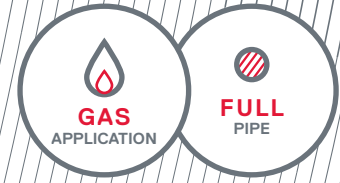


# Uf 801-P

ULTRASONIC PORTABLE FLOW METER



MEDIA  
MEASURED  
LIQUIDS  
& GASES



PIPE DIAMETERS  
UP TO  
10000MM



MODEL  
STANDARD  
DUAL PIPE  
DUAL CHORD

CALORIMETER  
DUAL CALORIMETER

## COMPACT

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

## ROBUST

- > IP68 ABS enclosure

## ADVANCED FUNCTIONS

- > Multi-parameter data logger
- > Stores up to 11 configurations/sites
- > Timer/programmer
- > Optional Input/output modules (analogue, digital)

## HIGH PERFORMANCE

- > Graphic screen
- > Echo, gain and quality index displayed
- > Battery life up to two months, using timed operation

## RELIABLE

- > Automatic zero calibration
- > Ten flow calculations per second

## MULTIPLE USES

- > On every type of homogeneous liquid, even non-conductive
- > On most types of gases - high and medium pressure\*
- > Non ideal flow conditions taken into account



## TYPICAL APPLICATIONS

### Drinking water:

Leakage detection, pump flow control, control of in-line flow meters

### Water (raw, waste):

Pump flow control

**Flow surveys:** Troubleshooting installations, resolving disputes

### Civil engineering:

Validation of system performance before handover of a project

**Climate engineering:** System balancing, thermal assessment

### Hydrocarbons:

Temporary flow measurement

\* APPLICATION CONDITIONS: PLEASE CONTACT US

MODEL	STANDARD	DUAL PIPE	DUAL CHORD	CALORIMETER	DUAL CALORIMETER
NATURE OF EQUIPMENT	Portable				
ULTRASONIC TRANSIT TIME	By Digital Signal Process (real-time Echo Shape Control, digital filtering and regulation of gain on each shoot)				
ACCURACY	Up to 0.5 % of reading - Fluid velocity range: 0.010 to 30.000 m/s				
REPEATABILITY	Up to 0.1 %				
LINEARITY	Up to 0.1 %				
TEMPORAL RESOLUTION	0.1 ns				
FLOW CALCULATION FREQUENCY	10 Hz				
MEASURED VALUES	Volumetric flowrate, fluid velocity and speed of sound - Totalizers: 4 independent and adjustable Signal quality analysis: strength, quality index and shape (via the oscilloscope function)				
UNITS OF MEASUREMENT	From litres per second to cubic metres per day				
VOLUME METERING	From a millilitre up to 1,000 cubic metres				
MULTI-LAYER PIPE	Up to three materials taken into consideration				
MEMORY CAPACITY	Up to 11 configurations				
OTHER IMPORTANT INFORMATION	Laminar and turbulent transitions taken in account (calculation of the Reynolds number - Except for parallel chords) Possibility to use mounting modes as Z, V, N and W				
INTERNAL Ø OF PIPE	From 8mm to 9,900mm approximately (depending on wall thickness)				
EXTERNAL Ø OF PIPE	From 10mm to 10,000mm				
PIPE MATERIAL	Aluminium, asbestos, cast iron, copper, glass, grey cast iron, nylon, Plexiglas, polyethylene, PTFE, PVC, stainless-steel and steel. Other materials can be used if their physical properties are known.				
MULTI LAYER PIPE MATERIAL	Aluminium, asbestos, cast iron, copper, glass, grey cast iron, nylon, Plexiglas, polyethylene, PTFE, PVC, stainless-steel and steel. Other materials can be used if their physical properties are known.				
STANDARD INPUTS/OUTPUTS	—				
LT CONFIGURATION - DUAL MODULE -	—			PT100/PT1000 2-input module taking up the physical space of two modules	
SUPPLEMENTARY LT CONFIGURATION (DUAL CALORIMETRY) - DUAL MODULE -	—	—	—	—	PT100/PT1000 2-input module taking up the physical space of two modules
USE	Flow measurement	Flow measurement in two pipes (with one speed chord per pipe)	Flow measurement with two speed chords	Flow measurement and calorimetry	Flow measurements in two pipes and dual calorimetry
SINGLE OR DUAL PIPE	Single pipe	Dual pipe	Single pipe	Single pipe	Dual pipe
SINGLE OR DUAL CHORD	Single chord	Single chord	Dual chord	Single chord	Single chord
IN OPTION, SINGLE INPUT/OUTPUT MODULES	Up to 4 modules to choose from: > 1 isolated, active analogue output: current 4-20mA, 0-20mA, 0-24mA · Module 1 > 2 static relay outputs usable as frequency outputs (up to 1kHz) · Module 2 > 2 isolated current inputs 4-20mA, 0-20mA, 0-24mA · Module 3 > 2 0-10V voltage inputs · Module 4 > 2 contact inputs (pulse or state) · Module 6			Up to 2 modules to choose from:	—
DISPLAY	Numeric and graphic (14 lines x 20 characters) · Backlit LCD screen with time delay feature				
TROUBLESHOOTING HELP	Oscilloscope function (echo displayed) · Gain · Quality index				
SET-UP	> Quick and simple - uses 7-key touch pad with 2 for dynamic allocation - or via dedicated software supplied > Possible to build in an access code				
MEASUREMENT DAMPING TIME	From 0 to 3600 seconds				
INFORMATION STORAGE	> 4MB data logger: time stamping - between 1 and 30 variables - up to 266,706 lines > 3-variable time stamping: 133,353 lines · 14 variables: 35,560 lines · 30 variables: 17,206 lines > Logging frequency from 1 second to 24 hours				
OPERATING SYSTEM	Ultraflux dedicated software (Windows compatible) for configuration (upload/download the settings), read/record the measurement values and download the logger's data. Measured values and logged data are readable with spread sheet software (Microsoft Excel, etc.)				
PROGRAMMER	Programmable power-up to increase the logger's battery life				
2/3 LANGUAGES	English & Russian or French & English + 1 additional language to be chosen: German · Portuguese · Spanish · Italian				
BATTERY LIFE	Up to 14hr continuous use · Charge indicator				
SERIAL LINK	RS232 to JBUS/MODBUS protocol · 115,200 Bauds · 1 RS232 to USB converter link cable included				
ACCESSORY INCLUDED	1 RS232 to USB converter link cable				
ELECTRICAL CHARACTERISTICS	> 12V NiMh sealed battery > Charger with input: 100-240V ac / 1.05-0.55A / 47-63Hz and output: 18V / 2.5A" > Cable for auxiliary power supply available as an option				
ENCLOSURE	ABS · 900g · 220 x 115 x 64mm				
PROTECTION	EN/IEC 60529 IP68				
COMPLIANCE	EMC compliance: EN/IEC 61010-1 Safety compliance: EN/IEC 61326-1				
TEMPERATURE RANGE	For use from -10°C to 50°C				