

# Uf 801P

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

## 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

## ROBUST

- > IP68 ABS enclosure

## 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

# Ultraflux



EXPERT IN FLOW METERS  
SINCE 1974

# Uf801P

MODEL	STANDARD	DUAL PIPE	DUAL CHORD	CALORIMETER	DUAL CALORIMETER
NATURE OF EQUIPMENT	Portable				
INTERNAL Ø OF PIPE	From 8mm to 9,900mm approximately (depending on wall thickness)				
EXTERNAL Ø OF PIPE	From 10mm to 10,000mm				
STANDARD MOUNTED 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
PIPE THICKNESS MEASUREMENT	Function available in digital and graphical mode(SE-1701)				
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				
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	Windows for transfer of content and operation of logger using common software (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	IP68				
TEMPERATURE RANGE	For use from -10°C to 50°C				

TECHNOLOGY	PERFORMANCES			
<b>ULTRASONIC TRANSIT TIME</b> > Continuous bidirectional measurement  <b>SIGNAL ANALYSIS</b> > By Digital Signal Process (real-time Echo Shape Control, digital filtering and regulation of gain on each firing)	<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> > 0.1ns  <b>TIME BETWEEN EACH FLOW CALCULATION</b> > 100ms  <b>UNITS OF MEASUREMENT</b> > From litres per second to cubic metres per day	<b>VOLUME METERING</b> > From a millilitre up to 1,000 cubic metres  <b>MULTI-LAYER PIPE</b> > Up to three materials taken into consideration  <b>MEMORY CAPACITY</b> > Up to 11 configurations	<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

# Ultraflux

**BIO MASS IMPIANTI s.r.l.**

Via M. Pagano, 28 - 20090 Trezzano s/N (MI)  
 Tel. +39-02.4453223 - Fax. +39-02.48402025  
 E-mail: [info@biomassimpianti.com](mailto:info@biomassimpianti.com)  
 Internet: [www.biomassimpianti.com](http://www.biomassimpianti.com)



EXPERT IN FLOW METERS  
SINCE 1974