

# Uf 811

## ULTRASONIC FIXED FLOW METER



MEDIA  
MEASURED  
LIQUIDS



PIPE DIAMETERS  
UP TO  
10000MM



MODELS  
STANDARD  
DUAL PIPE  
DUAL CHORD

CALORIMETER  
DUAL CALORIMETER

### HIGH PERFORMING

- > Graphic screen
- > Echo, gain and quality index displayed
- > Accurate up to 0.5%
- > Repeatability up to 0.1%

### ADAPTIVE

- > Multi-parameter data logger
- > Mathematical functions generator
- > Optional Input/output modules (analogue, digital)

### RELIABLE

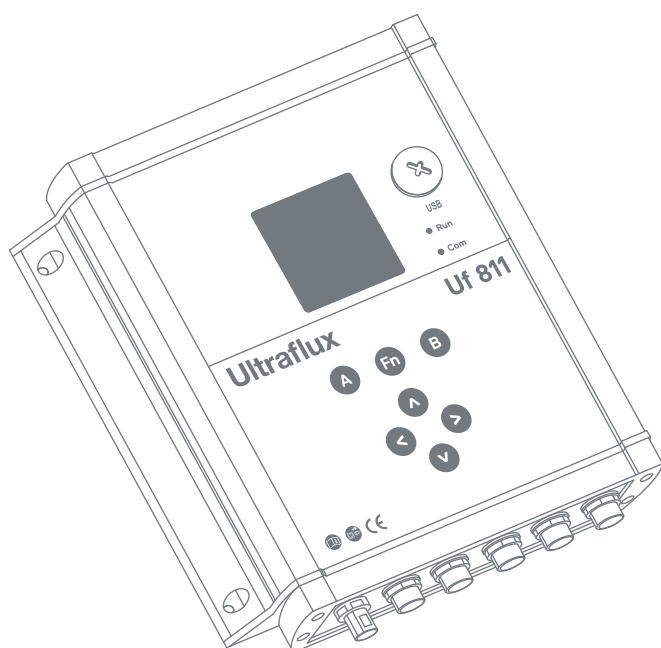
- > Automatic calibration of the zero point on site
- > Ten flow calculations per second

### COMPATIBLE

- > All Ultraflux probes or probes already installed\*

### COMPACT

- > Reduced space requirements



### TYPICAL APPLICATIONS

#### Drinking water:

Flow measurement and metering in treatment station works, abstraction flow measurement

#### Waste water:

Flow measurement at pumping stations, in systems, inlets/outfalls in treatment works

#### Raw water:

Flow measurement in fire mains, system monitoring

**Climate engineering:**  
energy assessment

**Chemical products, including aggressive chemicals:**

Flow measurement for acids, chlorides

**Pharmaceutical sector:**  
ultrapure water flows

**Automotive, food and farming, energy...**

\* PLEASE ENQUIRE

# Ultraflux



EXPERT IN FLOW METERS  
SINCE 1974

MODEL	STANDARD	DUAL PIPE	DUAL CHORD	CALORIMETER	DUAL CALORIMETER
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	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, SUPPLEMENTARY INPUT/OUTPUT MODULES	Up to 4 modules to choose from:			Up to 2 modules to choose from:	—
	<ul style="list-style-type: none"> <li>&gt; 1 isolated, active analogue output: current 4-20mA, 0-20mA, 0-24mA · Module 1</li> <li>&gt; 2 static relay outputs (50V - 10mA) usable as frequency outputs (up to 1kHz) · Module 2</li> <li>&gt; 2 isolated, passive current inputs 4-20mA, 0-20mA, 0-24mA · Module 3</li> <li>&gt; 2 isolated, passive analogue 0-10V inputs: 0 to 15V voltage · Module 4</li> <li>&gt; 2 contact 5V inputs (pulse or state) · Module 6</li> </ul>				
DISPLAY	<ul style="list-style-type: none"> <li>&gt; Graphical LCD screen (14 lines x 20 characters)</li> <li>&gt; Backlit screen with time delay feature</li> </ul>				
TROUBLESHOOTING HELP	Oscilloscope function (echo displayed) · Gain · Quality index				
SET-UP	<ul style="list-style-type: none"> <li>&gt; Quick and simple - by 7-key touchpad with 2 dynamically allocated - or - via dedicated software supplied</li> <li>&gt; Possible to build in an access code</li> </ul>				
INFORMATION STORAGE	<ul style="list-style-type: none"> <li>&gt; 8MB data logger: time stamping - 1 to 30 variables - up to 536,886 lines</li> <li>&gt; 3-variable time stamping: 268,443 lines · 14 variables: 71,584 lines · 30 variables: 34,637 lines</li> <li>&gt; Logging frequency from 1 second to 24 hours</li> </ul>				
OPERATING SYSTEM	Windows for transfer of content and operation of logger using common software (Excel, etc.)				
7 LANGUAGES	French · English · German · Portuguese · Spanish · Italian · Russian				
COMMUNICATION	<ul style="list-style-type: none"> <li>&gt; Serial link RS232 or RS485 to JBUS/MODBUS protocol · 115,200 Bauds</li> <li>&gt; USB port</li> </ul>				
POWER SUPPLY	<ul style="list-style-type: none"> <li>&gt; Low voltage power supply: 10-32V dc</li> <li>&gt; Peak consumption &lt; 12W</li> <li>&gt; Average consumption &lt; 6W</li> </ul>				
ENCLOSURE	Metallic · Robust and compact · 2kg · 221 x 231 x 59mm				
PROTECTION	IP67				
TEMPERATURE RANGE	For use from -20°C to 70°C (Screen reading from -20°C to 60°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>MEMORY CAPACITY</b> > Up to 11 configurations	<b>ANOTHER IMPORTANT DETAIL</b> > Laminar and turbulent transitions considered (calculation of the Reynolds number) - except for parallel chords > Freedom to mount probes: modes /, V, N and W	

