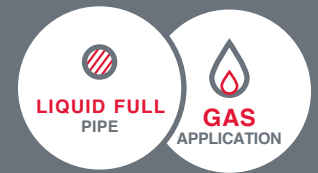


# Uf-811



## ULTRASONIC FIXED FLOW METER



MEDIA  
MEASURED  
LIQUIDS & GASES



PIPE DIAMETERS  
UP TO  
10000MM



MODELS  
STANDARD  
DUAL PIPE  
DUAL CHORD

CALORIMETER  
DUAL CALORIMETER

### HIGH PERFORMING

- › Graphic screen
- › Echo, gain and quality index displayed
- › Accuracy up to 0,5 % of flow reading (minimum velocity 0,2 m/s for pipes above 300 mm)
- › Repeatability up to 0.1%
- › Range +/- 20m/s

### ADAPTIVE

- › Multi-parameter data logger
- › Mathematical functions generator
- › Optional Input/output modules (analogue, digital)
- › UF 811 can work on all homogenous pipe materials (Steel, PVC, Cast Iron, Stainless Steel...)
- › Up to 3 different pipe layers

### RELIABLE

- › Automatic calibration of the zero point on site
- › Ten flow calculations per second
- › EU (CE) conformity according to 2014/30/UE 2011/65/UE

### COMPACT

- › Reduced space requirements

### COMPATIBLE

- › All Ultraflux probes or probes already installed\*



### 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**  
Débitmètres à ultrasons

Une marque de  FAURE HERMAN

MODEL	STANDARD	DUAL PIPE	DUAL CHORD	CALORIMETER	DUAL CALORIMETER
<b>TECHNOLOGY</b>	Ultrasonic transit-time flowmeter - Continuous and bidirectional flow metering - 10 flow measurements/s				
<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 % of reading - Fluid velocity range: 0.010 to 30.000 m/s				
<b>REPEATABILITY</b>	Up to 0,1%				
<b>LINEARITY</b>	Up to 0,1 %				
<b>VELOCITY LIMITS</b>	+/- 20 m/s				
<b>TEMPORAL RESOLUTION</b>	0,1 ns				
<b>RESPONSE TIME</b>	Less than 1 second				
<b>DAMPING</b>	Adjustable from 0 to 3600 s				
<b>INTERNAL Ø OF PIPE</b>	From 8mm to 9,900mm approximately (depending on pipe thickness)				
<b>EXTERNAL Ø OF PIPE</b>	From 10mm to 10,000mm				
<b>PIPE MATERIAL</b>	Aluminium, asbestos, cast iron, copper, glass, grey cast iron, nylon, plexiglass, polyethylene, PTFE, PVC, stainless-steel and steel. Other materials can be used if their physical properties are known.				
<b>MULTI LAYER PIPE MATERIAL</b>	Aluminium, asbestos, cast iron, copper, glass, grey cast iron, nylon, plexiglass, polyethylene, PTFE, PVC, stainless-steel and steel. Other materials can be used if their physical properties are known.				
<b>INPUTS/OUTPUTS MOUNTED AS STANDARD</b>	2 static relay outputs (50 V - 10 mA) usable as frequency outputs (up to 1KHz) - Module 2 (Single)				
<b>LT CONFIGURATION - DUAL MODULE -</b>	—	—	—	PT100/PT1000 2-input module taking up the physical space of two modules	
<b>SUPPLEMENTARY LT CONFIGURATION (DUAL CALORIMETRY) - DUAL MODULE -</b>	—	—	—	—	PT100/PT1000 2-input module taking up the physical space of two modules
<b>USE</b>	Flow measurement Single pipe Single chord	Flow measurement in two pipes Dual pipe Single chord	Flow measurement with two speed chords Single pipe Dual chord	Flow measurement and calorimetry Single pipe Single chord	Flow measurements in two pipes and dual calorimetry Dual pipe Single chord
<b>IN OPTION, SUPPLEMENTARY INPUT/OUTPUT SINGLE MODULES</b>	Up to 4 modules to choose from:  <ul style="list-style-type: none"> <li>› 1 isolated, active analog output: current 4-20mA, 0-20mA, 0-24mA • Module 1</li> <li>› 2 static relay outputs (50V - 10mA) usable as frequency outputs (up to 1kHz) • Module 2</li> <li>› 2 isolated, passive current inputs 4-20mA, 0-20mA, 0-24mA • Module 3</li> <li>› 2 isolated, passive analogue 0-10V inputs: 0 to 15V voltage • Module 4</li> <li>› 2 Pt 100 / Pt 1000 temperature - Module 5</li> <li>› 2 contact 5V inputs (pulse or state) • Module 6</li> </ul>			Up to 2 modules to choose from:  —	
<b>DISPLAY</b>	<ul style="list-style-type: none"> <li>› Graphical LCD screen (14 lines x 20 characters)</li> <li>› Backlit screen with time delay feature</li> <li>› Flowrate unit from l/s to m³/day</li> </ul>				
<b>MEASURED VALUES</b>	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)				
<b>TROUBLESHOOTING HELP</b>	Oscilloscope function (echo displayed) • Gain • Quality index				
<b>SET-UP</b>	<ul style="list-style-type: none"> <li>› Quick and simple - by 7-key touchpad with 2 dynamically allocated - or - via dedicated software supplied</li> <li>› Possible to build in an access code</li> </ul>				
<b>MEASUREMENT DAMPING TIME</b>	From 0 to 3600 seconds				
<b>INFORMATION STORAGE</b>	<ul style="list-style-type: none"> <li>› 8MB data logger: time stamping - 1to 30 variables - up to 536,886 lines</li> <li>› 3-variable time stamping: 268,443 lines • 14 variables: 71,584 lines • 30 variables: 34,637 lines</li> <li>› Logging frequency from 1 second to 24 hours</li> </ul>				
<b>TOTALIZATION</b>	Resolution from 1ml to 1000 m³				
<b>OPERATING SYSTEM</b>	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 a spreadsheet software (Microsoft Excel, etc.)				
<b>7 LANGUAGES</b>	French • English • German • Portuguese • Spanish • Italian • Russian				
<b>COMMUNICATION</b>	Serial link RS232 or RS485 to JBUS/MODBUS protocol • 115,200 Bauds - USB port				
<b>POWER SUPPLY</b>	Low voltage power supply: 10-32V dc / Peak consumption < 12W / Average consumption < 6W				
<b>ENCLOSURE / IP</b>	Metallic • Robust and compact • 2kg • 221x 231x 59mm - IP67 / EN / IEC 60529				
<b>PROTECTION</b>	EN/IEC 60529 IP68				
<b>COMPLIANCE</b>	EMC compliance: EN/IEC 61010-1 Safety compliance: EN/IEC 61326-1				
<b>TEMPERATURE RANGE</b>	For use from -20°C to 70°C (Screen reading from -20°C to 60°C)				