Uf-811



ULTRASONIC FIXED FLOW METER



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 differentpipe 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...





Uf811

COLOR COLO							
ACCUMACY Class C	MODEL	STANDARD	DUAL PIPE	DUAL CHORD	CALORIMETER	DUAL CALORIMETER	
ACCURACY Up to 21 % REPLATABILITY Up to 22 % REPLATABILITY Up to 21 % REPLATABILITY Up to 22 %	TECHNOLOGY	Ultrasonic transit-time flowmeter - Continuous and bidirectional flow metering - 10 flow measurement/s					
INTERIOR OF PIPE FOR time to \$0.000 or \$0.000	SIGNAL ANALYSIS	By Digital Signal Process (real	By Digital Signal Process (real-time Echo Shape Control, digital filtering and regulation of gain on each firing)				
SINGARY 1985 1985 1985 1985 1985 1985 1985 1985	ACCURACY	Up to 0.5 % of reading - Fluid velocity range: 0.010 to 30.000 m/s					
Part	REPEATABILITY	Up to 0,1%					
REPORT TIME Lase than 1 second Any access from 6 to 1900 a Any access from 6 to 1900 a From term to \$4,000mm approximately (depending on pice thickness) Any access from 6 to 1900 a From term to 19,000mm PP MATERIAL Advertisms advector, our first open, goey cast inc., repts., placegies, pdysthyrox. PTF PPC, bishove-deed and social Offer and second Control of their or phylical properties are virtice. Advertisms advector, our for capper, goes, goey cast inc., repts., placegies, pdysthyrox. PTF PPC, bishove-deed and social Offer materials on the second time or phylical properties are virtice. Christophility and the second of their or phylical properties are virtice. Applications and their or phylical properties are virtice. Applications and their or phylical properties are virtice. Applications and their or phylical properties are virtice. Applications are virtice. Any committee and second of their or phylical properties are virtice. Applications are virtice. Any committee and their or phylical properties are virtice. Any committee and their or phylical properties are virtice. Any committee and their or phylical properties are virtice. Any committee and their or phylical properties and their or phylical properties are virtice. Any committee and their or phylical properties are virtice. Any committee and their or phylical properties and their or phylical properties and their or phylical properties. Any committee and their or phylical properties and their or phylical properties. Any committee and their or phylical properties and their or phylical properties. Any committee and their or phylical properties and their or phylical properties. Any committee and their or phylical properties and their or phylical properties. Any committee and their or phylical properties and their or phylical properties. Any committee and their or phylical properties and their or phylical properties and their or phylical properties. Any committee and their or phylical properties and their or phylical properties a	INEARITY	Up to 0,1 %					
Less than 1 second	/ELOCITY LIMITS	+/- 20 m/s					
Adjustance from 10 5/000 s FIREMAL OF PIPE FRANTEAL All riskums selected, cell from concerning description paper Bilderess) EXTERNAL OF PIPE FRANTEAL All riskums selected, cell from concerning description paper Bilderess UNITED AND PIPE ANTERNAL All riskums selected, cell from concerning description paper and trough. UNITED ANTERNAL OF PIPE FRANTEAL All riskums selected, cell from concerning description paper and trough. UNITED ANTERNAL OF PIPE ANTERNAL All riskums selected, cell from concerning description paper and trough. UNITED ANTERNAL OF PIPE ANTERNAL All riskums selected, cell from concerning description and trough. UNITED ANTERNAL OF PIPE ANTERNAL All riskums selected, cell from concerning and trought of the cell riskup concerning and trough and trought and tro	TEMPORAL RESOLUTION	0,1 ns	0,1 ns				
For a form to 9,000mm approximately (depending on pipe fillideness) STEENAL OF PIPE From 10ms to 10,000mm PRIMATERIAL Alternatives cased from copport, places gray case into mytern pleaglass, polyethylene, PTE, PVC, sainless and and seed. Other materials can be beautiful from a hybrid graperials are brown. Alternatives case to come of from a hybrid pleaglass, polyethylene, PTE, PVC, sainless and and seed. Other part materials can be used if their physical properties are brown. Alternatives as the seed of from a hybrid properties are brown. PPTISOFTUDO 2-report restained to the computer of from a hybrid properties are brown. TO communication of the computer of from a hybrid properties are brown. PPTISOFTUDO 2-report of properties are brown. PPTISOFTUDO 2-re	RESPONSE TIME	Less than 1 second					
PER MATERIAL OF PIPE From 10 ms to 10,000 mm Adversorum, experies, cast row, copport, place, grey cost row, sylon, pleoglass, polyethylene, PTE, PVC, stainless steel and steel. Cher materials can be seed if their priyletical properties are known. Adversorum exclusive, cost row, copport, place, grey cost row, sylon, gleoglass, polyethylene, PTE, PVC, stainless steel and steel. Cher materials can be seed if their priyletical properties are known. Adversorum exclusive, cost for cost polyethylene, properties, projectly proje	DAMPING	Adjustable from 0 to 3600 s					
Aluminum, sebestion, ceet zero, copper, glass, grey cest sizon, ryloro, plessigless, polyethylene, PTFE, PVC, stainless sizen and steel. Christophisms and both care of them physical properties are brown. Christophisms and both care of the physical properties are brown. Christophisms and the company of the physical properties are brown. PEUTS/OUTPUTS 2 statio relay outputs (50 V - 10 mA) usable as frequency outputs (up to 1KHz) - Module 2 (Single) and steel physical properties are brown. PEUTS/OUTPUTS 2 statio relay outputs (50 V - 10 mA) usable as frequency outputs (up to 1KHz) - Module 2 (Single) and steel physical properties are brown. PEUTS/OUTPUTS (up to 1KHz) - Module 2 (Single) and steel physical physical physical space of two modules are place physical	NTERNAL Ø OF PIPE	From 8mm to 9,900mm approximately (depending on pipe thickness)					
Communication can be used. If their professor properties are known. Communication content and professor properties are known.	EXTERNAL Ø OF PIPE	From 10mm to 10,000mm	From 10mm to 10,000mm				
2 static relay outputs (SD V - 10 mA) usable as frequency outputs (up to 1KHz) - Module 2 (Single) 7 COMPARATION 2 static relay outputs (SD V - 10 mA) usable as frequency outputs (up to 1KHz) - Module 2 (Single) 7 COMPARATION 2 manual stress of the properties of	IPE MATERIAL						
COUNTED AS STANDARD 2 STRICE (resty Outputs (CD V = 10 mA) usable as trequency outputs (UD 10 1AT2) Module 2 (Single) us the physical space of two incodes	MULTI LAYER PIPE MATERIAL						
SINPLEMENTARY NET TO CONFIGURATION DUAL CALORMETRY) DUAL CALORMETRY) DUAL CALORMETRY) DUAL CALORMETRY) DUAL CALORMETRY) DUAL OR COMMETRY) DUAL OR COMMETRY DUAL OR COMMETRY) DUAL OR COMMETRY DUAL OR COMMETRY DUAL OR COMMETRY Single pine Single chord Dual or Comment or Single pine Single chord Dual or Comment or Single pine Single chord Single pine Single chord Single pine Single chord Dual or Commentary Single pine Single chord Single pine Single chord Single pine Single chord Dual or Commentary Single pine Single chord Single pine Single chord Single pine Single chord Calormetry Single pine Single chord Single pine Single chord Calormetry Single pine Single pine Single pine Single chord Calormetry Single pine		2 static relay outputs (50	V - 10 mA) usable as frequ	ency outputs (up to 1KHz)	- Module 2 (Single)		
COMPRIGNATION USE Flow measurement production of the production		_	_	_			
Single pipe Diap	CONFIGURATION (DUAL CALORIMETRY)	_	_	_	_	module taking up the physic	
It coloses from: It coloses	JSE	Single pipe	pipes Dual pipe	speed chords Single pipe	calorimetry Single pipe	pipes and dual calorimetry Dual pipe	
- 2 static relay outputs (60V - 10nA) usable as frequency outputs (up to 16t42) - Module 2 2 2 2 solated, passive analogue of 10V inputs (20mA, 0-20mA, 0-20mA) - Module 3 2 2 solated, passive analogue of 10V inputs (10 15V voltage * Module 4 2 2 Pt 100 / Pt 1000 temperature - Module 6 2 2 contact 5V inputs (pulse or state) * Module 6 3 3 2 contact 5V inputs (pulse or state) * Module 6 3 3 2 contact 5V inputs (pulse or state) * Module 4 incompleted or state) * Module 4 3 2 contact 5V inputs (pulse or state) * Module 4 3 2 contact 5V inputs (pulse or state) * Module 4 incompleted or via dedicated software supplied * Pulse or via dedicated * State * Pulse * Pulse * Puls	SUPPLEMENTARY INPUT/OUTPUT					_	
Backlit screen with time delay feature **Flowrate unit from I/V sto mJday** **PAGURED 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) **TROUBLESHOOTING HELP** **Oscilloscope function (echo displayed) **Gain **Ouality index** **Oulck and simple - by 7-key touchpad with 2 dynamically allocated - or - via dedicated software supplied **Possible to build in an access code** **POSSIble to build in an access code** **POSSIBLE TO 0 to 3600 seconds** *		 2 static relay outputs (50V - 10mA) usable as frequency outputs (up to 1kHz) • Module 2 2 isolated, passive current inputs 4-20mA, 0-20mA, 0-24mA • Module 3 2 isolated, passive analogue 0-10V inputs: 0 to 15V voltage • Module 4 2 Pt 100 / Pt 1000 temperature - Module 5 					
Signal quality analysis: strength, quality index and shape (via the oscilloscope function) TROUBLESHOOTING HELP Oscilloscope function (echo displayed) • Gain • Quality index Ouclik and simple - by 7-key touchpad with 2 dynamically allocated - or - via dedicated software supplied Possible to build in an access code From 0 to 3600 seconds From 0 to 3600 seconds NFORMATION STORAGE **8MB data logger: time stamping - 1to 30 variables - up to 536,886 lines - 3-variable time stamping: 268,443 lines • 14 variables: 71,584 lines • 30 variables: 34,637 lines Logging frequency from 1 second to 24 hours **TOTALIZATION Resolution from 1ml to 1000 m³ Ultraflux dedicated software (Windows compatible) for configuration (upload/donwload the settings), read/record the measurement download the logger's data. Measured values and logged data are readable with a spreadsheet software (Microsoft Excel, etc.) **TANGUAGES French • English • German • Portuguese • Spanish • Italian • Russian COMMUNICATION Serial link RS232 or RS485 to JBUS/MODBUS protocol • 115,200 Bauds - USB port Low voltage power supply: 10-32V dc / Peak consumption < 12W / Average consumption < 6W ENCLOSURE / IP Metallic • Robust and compact • 2kg • 221x 231x 59mm - IP67 / EN / IEC 60529 ENCICOSURE / IP Metallic • Robust and compact • 2kg • 221x 231x 59mm - IP67 / EN / IEC 60529	DISPLAY	Backlit screen with time delay feature					
A Quick and simple - by 7-key touchpad with 2 dynamically allocated - or - via dedicated software supplied Possible to build in an access code From 0 to 3600 seconds **REASUREMENT DAMPING TIME** From 0 to 3600 seconds ***BMB data logger: time stamping - 1to - 30 variables - up to 536,886 lines - 3-variables: 34,637 lines - Logging frequency from 1 second to 24 hours ***POPERATION** Resolution from 1ml to 1000 m³ ***DITALIZATION** Resolution from 1ml to 1000 m³ ***DITALIZATION** DEFERATING SYSTEM** Ultraflux dedicated software (Windows compatible) for configuration (upload/donwload the settings), read/record the measurement download the logger's data. Measured values and logged data are readable with a spreadsheet software (Microsoft Excel, etc.) ***TANGUAGES** French * English * German * Portuguese * Spanish * Italian * Russian ***POWER SUPPLY** Low voltage power supply: 10-32V dc / Peak consumption < 12W / Average consumption < 6W ***ENCLOSURE / IP** Metallic * Robust and compact * 2kg * 221x 231x 59mm - IP67 / EN / IEC 60529 ***PROTECTION** ENVIEC 60529 IP68	MEASURED VALUES						
POSSIBLE to build in an access code From 0 to 3600 seconds **NFORMATION STORAGE** **NBMB data logger: time stamping: 268,443 lines • 14 variables: 71,584 lines • 30 variables: 34,637 lines • 30 variables: 34,637 lines • Logging frequency from 1 second to 24 hours **TOTALIZATION** **Resolution from 1ml to 1000 m³ **Ultraffux dedicated software (Windows compatible) for configuration (upload/donwload the settings), read/record the measurement download the logger's data. Measured values and logged data are readable with a spreadsheet software (Microsoft Excel, etc.) **LANGUAGES** **French **English **German **Portuguese **Spanish **Italian **Russian** **ROMMUNICATION** **Serial link RS232 or RS485 to JBUS/MODBUS protocol **115,200 Bauds - USB port* **Low voltage power supply: 10-32V dc / Peak consumption < 12W / Average consumption < 6W **ENCLOSURE / IP** **Metallic **Robust and compact **2kg **221x 231x 59mm - IP67 / EN / IEC 60529 **ROTECTION** **ENCLOSURE / IP** **Metallic **Robust and compact **2kg **221x 231x 59mm - IP67 / EN / IEC 60529 **ROTECTION** **ENCLOSURE / IP** **METALLINE RESULTS AND A CONTRACT OF A CON	ROUBLESHOOTING HELP	Oscilloscope function (echo displayed) • Gain • Quality index					
A SMB data logger: time stamping - 1to 30 variables - up to 536,886 lines - 3-variable time stamping: 268,443 lines • 14 variables: 71,584 lines • 30 variables: 34,637 lines - Logging frequency from 1 second to 24 hours TOTALIZATION Resolution from 1ml to 1000 m³ PERATING SYSTEM Ultraflux dedicated software (Windows compatible) for configuration (upload/donwload the settings), read/record the measurement download the logger's data. Measured values and logged data are readable with a spreadsheet software (Microsoft Excel, etc.) TANGUAGES French • English • German • Portuguese • Spanish • Italian • Russian COMMUNICATION Serial link RS232 or RS485 to JBUS/MODBUS protocol • 115,200 Bauds - USB port Low voltage power supply: 10-32V dc / Peak consumption < 12W / Average consumption < 6W ENCLOSURE / IP Metallic • Robust and compact • 2kg • 221x 231x 59mm - IP67 / EN / IEC 60529 ROTECTION EN/IEC 60529 IP68	SET-UP						
3-variable time stamping: 268,443 lines • 14 variables: 71,584 lines • 30 variables: 34,637 lines Logging frequency from 1 second to 24 hours POPERATING SYSTEM Ultraflux dedicated software (Windows compatible) for configuration (upload/donwload the settings), read/record the measurement download the logger's data. Measured values and logged data are readable with a spreadsheet software (Microsoft Excel, etc.) POPERATING SYSTEM Ultraflux dedicated software (Windows compatible) for configuration (upload/donwload 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.) POPERATING SYSTEM Ultraflux dedicated software (Windows compatible) for configuration (upload/donwload 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.) POPERATING SYSTEM Ultraflux dedicated software (Windows compatible) for configuration (upload/donwload the settings), read/record the measurement values and download the settings)	MEASUREMENT DAMPING TIME	From 0 to 3600 seconds					
Ultraflux dedicated software (Windows compatible) for configuration (upload/donwload the settings), read/record the measurement download the logger's data. Measured values and logged data are readable with a spreadsheet software (Microsoft Excel, etc.) 7 LANGUAGES French • English • German • Portuguese • Spanish • Italian • Russian COMMUNICATION Serial link RS232 or RS485 to JBUS/MODBUS protocol • 115,200 Bauds - USB port Low voltage power supply: 10-32V dc / Peak consumption < 12W / Average consumption < 6W ENCLOSURE / IP Metallic • Robust and compact • 2kg • 221x 231x 59mm - IP67 / EN / IEC 60529 EN/IEC 60529 IP68	INFORMATION STORAGE	3-variable time stamping: 268,443 lines • 14 variables: 71,584 lines • 30 variables: 34,637 lines					
download the logger's data. Measured values and logged data are readable with a spreadsheet software (Microsoft Excel, etc.) 7 LANGUAGES French • English • German • Portuguese • Spanish • Italian • Russian COMMUNICATION Serial link RS232 or RS485 to JBUS/MODBUS protocol • 115,200 Bauds - USB port Low voltage power supply: 10-32V dc / Peak consumption < 12W / Average consumption < 6W ENCLOSURE / IP Metallic • Robust and compact • 2kg • 221x 231x 59mm - IP67 / EN / IEC 60529 PROTECTION EN/IEC 60529 IP68	TOTALIZATION	Resolution from 1ml to 1000 m ³					
Serial link RS232 or RS485 to JBUS/MODBUS protocol • 115,200 Bauds - USB port Low voltage power supply: 10-32V dc / Peak consumption < 12W / Average consumption < 6W ENCLOSURE / IP Metallic • Robust and compact • 2kg • 221x 231x 59mm - IP67 / EN / IEC 60529 ENCIOSURE / IP EN/IEC 60529 IP68	DPERATING SYSTEM						
Low voltage power supply: 10-32V dc / Peak consumption < 12W / Average consumption < 6W Metallic • Robust and compact • 2kg • 221x 231x 59mm - IP67 / EN / IEC 60529 ROTECTION EN/IEC 60529 IP68	LANGUAGES	French • English • German • F	French • English • German • Portuguese • Spanish • Italian • Russian				
ENCLOSURE / IP Metallic • Robust and compact • 2kg • 221x 231x 59mm - IP67 / EN / IEC 60529 ROTECTION EN/IEC 60529 IP68	COMMUNICATION	Serial link RS232 or RS485 to	JBUS/MODBUS protocol • 115,20	00 Bauds - USB port			
ROTECTION EN/IEC 60529 IP68	POWER SUPPLY	Low voltage power supply: 10	Low voltage power supply: 10-32V dc / Peak consumption < 12W / Average consumption < 6W				
CHAIR THE	ENCLOSURE / IP	Metallic • Robust and compa	ct • 2kg • 221x 231x 59mm - IF	67 / EN / IEC 60529			
OMPLIANCE EMC compliance: EN/IEC 61010-1 Safety compliance: EN/IEC 61326-1 TEMPERATURE RANGE EMC compliance: EN/IEC 61010-1 Safety compliance: EN/IEC 61326-1 For use from -20°C to 70°C (Screen reading from -20°C to 60°C) Ultraflux	ROTECTION	EN/IEC 60529 IP68					
TEMPERATURE RANGE For use from -20°C to 70°C (Screen reading from -20°C to 60°C) UITIATIUX	:OMPLIANCE	EMC compliance: EN/IEC 6	1010-1 Safety compliance: EN	/IEC 61326-1	1.112		
	EMPERATURE RANGE	For use from -20°C to 70°C (So	creen reading from -20°C to 60°C)	UITI	ratiux	

