Uf 811 OPEN CHANNEL

ULTRASONIC FIXED FLOW METER

FREE SURFACE FLOW

MEDIA MEASURED
LIQUIDS

CHANNELS UP TO
30M (WIDTH)

MODELS
STANDARD
DUAL CHANNEL
DUAL CHORD

HIGH PERFORMING

- Graphic screen
- Echo, gain and quality index displayed
- Possible measurement in liquids with solids*

ADAPTIVE

- Multi-parameter data logger
- Mathematical functions generator
- Supplementary Input/output modules (analogue, digital)
- Low flow calculation using level/velocity standards

ACCURATE

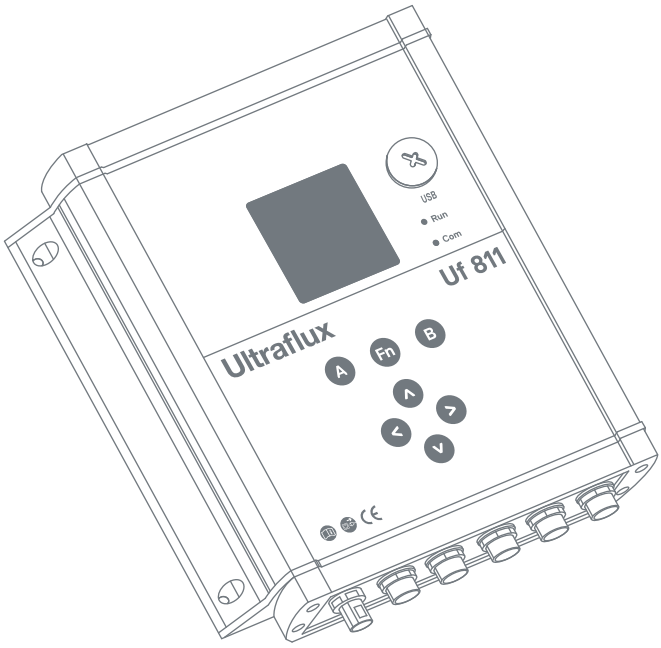
- Breakdown of the section into 20 height/width points and left/right points
- Calculation method as per standard ISO 6416

COMPATIBLE

- All Ultraflux probes or probes already installed*

COMPACT

- Reduced space requirements



TYPICAL APPLICATIONS

Waste water:
Flow measurement at treatment works inlets/outfalls (small channels)

Raw water:
Flow measurement in irrigation channels, small rivers

* PLEASE ENQUIRE

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MODEL	STANDARD	DUAL CHANNEL	DUAL CHORD
TYPE OF EQUIPEMENT	Fixed		
WIDTH OF CHANNEL	Up to 30m (in clean water)		
STANDARD MOUNTED INPUTS/OUTPUTS	2 isolated, passive current inputs 4-20mA, 0-20mA, 0-24mA		
USE	Flow measurement	Flow measurement in two channels	Flow measurement with two speed chords
CONDITIONS FOR USE	In open channel flows: open channel, pipe which is not full or a river		
SINGLE OR DUAL CHANNEL	Single channel	Dual channel	Single channel
SINGLE OR DUAL CHORD	Single chord	Single chord	Dual chord
IN OPTION, UP TO 3 ADDITIONAL INPUT/OUTPUT MODULES	› 1 isolated, active analogue output: current 4-20mA, 0-20mA, 0-24mA • Module 1 (Single) › 2 static relay outputs usable as frequency outputs (up to 1kHz) • Module 2 (Single) › 2 isolated current inputs 4-20mA, 0-20mA, 0-24mA • Module 3 (Single) › 2 isolated, passive analogue 0-10V inputs: 0 to 15V voltage • Module 4 (Single) › 2 PT100/PT1000 temperature inputs - taking up the physical space of 2 modules • Module 5 (Dual) › 2 contact 5V inputs (pulse or state) • Module 6 (Single)		
DISPLAY	› Graphical LCD screen (14 lines x 20 characters) › Backlit screen with time delay feature		
TROUBLESHOOTING HELP	Oscilloscope function (echo displayed) • Gain • Quality index		
SET-UP	› Quick and simple - by 7-key touchpad with 2 dynamically allocated - or - via dedicated software supplied › Possible to build in an access code		
INFORMATION STORAGE	› 8MB data logger: time stamping - between 1 and 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		
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	› Serial link RS232 or RS485 to JBUS/MODBUS protocol • 115,200 Bauds › USB port		
POWER SUPPLY	› Low voltage power supply: 10-32V dc › Peak consumption < 12W › Average consumption < 6W		
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

ULTRASONIC TRANSIT TIME
› Continuous bidirectional measurement

SIGNAL ANALYSIS
› By Digital Signal Process (real-time Echo Shape Control, digital filtering and regulation of gain on each firing)

PERFORMANCES

ACCURACY
› Up to 0.5%

REPEATABILITY
› Up to 0.1%

LINEARITY
› Up to 0.1%

TEMPORAL RESOLUTION
› 0.1ns

TIME BETWEEN EACH FLOW CALCULATION
› 100ms

UNITS OF MEASUREMENT
› From litres per second to cubic metres per day

VOLUME METERING
› From a millilitre up to 1,000 cubic metres

MEMORY CAPACITY
› Up to 11 configurations

ANOTHER IMPORTANT DETAIL
› Level measurement not included

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