

Uf 811 OPEN CHANNEL

ULTRASONIC FIXED FLOW METER



MEDIA
MEASURED
LIQUIDS



CHANNELS
UP TO
30M (WIDTH)



MODELS
STANDARD
DUAL CHANNEL
DUAL CHORD

HIGH PERFORMING

- > Graphic screen
- > Echo, gain and quality index displayed
- > Measure possible on loaded liquids*

ADAPTIVE

- > Multi-parameter data logger
- > Mathematical functions generator
- > Supplementary Input/output modules (analogue, digital)
- > Impaired mode through height/speed law

ACCURATE

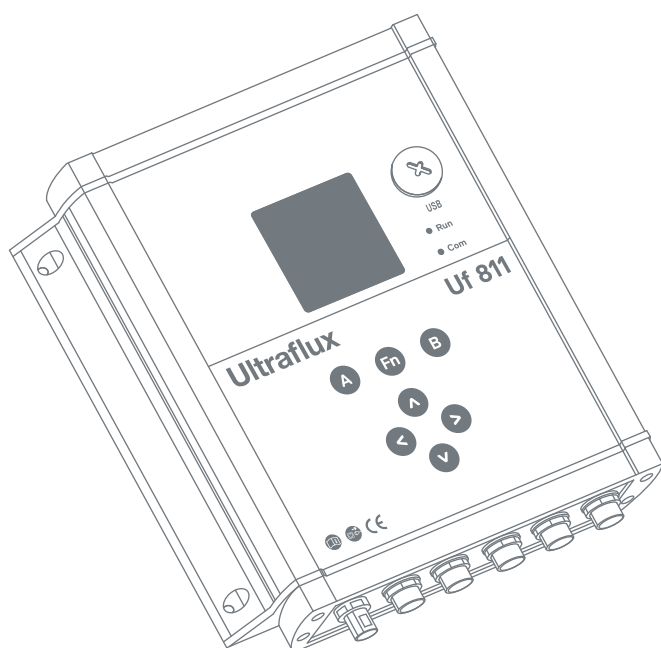
- > Breakdown of the section into 20 height/width points and left/right points
- > Calculation method as per standard ISO 6416

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

Ultraflux



EXPERT IN FLOW METERS
SINCE 1974

| 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 · 210 x 165 x 72mm | | |
| PROTECTION | IP67 | | |
| TEMPERATURE RANGE | For use from -20°C to 70°C (Screen reading from -20°C to 60°C) | | |

| TECHNOLOGY | PERFORMANCES | | | |
|---|--------------------------------------|--|---|---|
| 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) | ACCURACY > Up to 0.5% | TEMPORAL RESOLUTION > 0.1ns | UNITS OF MEASUREMENT > From litres per second to cubic metres per day | MEMORY CAPACITY > Up to 11 configurations |
| | REPEATABILITY > Up to 0.1% | TIME BETWEEN EACH FLOW CALCULATION > 100ms | VOLUME METERING > From a millilitre up to 1,000 cubic metres | ANOTHER IMPORTANT DETAIL > Level measurement not included |
| | LINEARITY > Up to 0.1% | | | |

