

Uf 821 OPEN CHANNEL & RIVER

ULTRASONIC FIXED FLOW METER



FLUIDS MEASURED
LIQUIDS
& GASES



CHANNELS UP TO
30M (WIDTH)



RIVERS UP TO
UP TO 300 M
(DISTANCE
BETWEEN BANKS)



MODELS
SINGLE CHANNEL
MULTI-CHANNEL
RIVER

HIGH PERFORMING

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

ADAPTIVE

- > Multi-variable data logger
- > Mathematical functions generator
- > Optional HART protocol and Input/output modules
- > Low flow calculations using level/velocity standards

ACCURATE

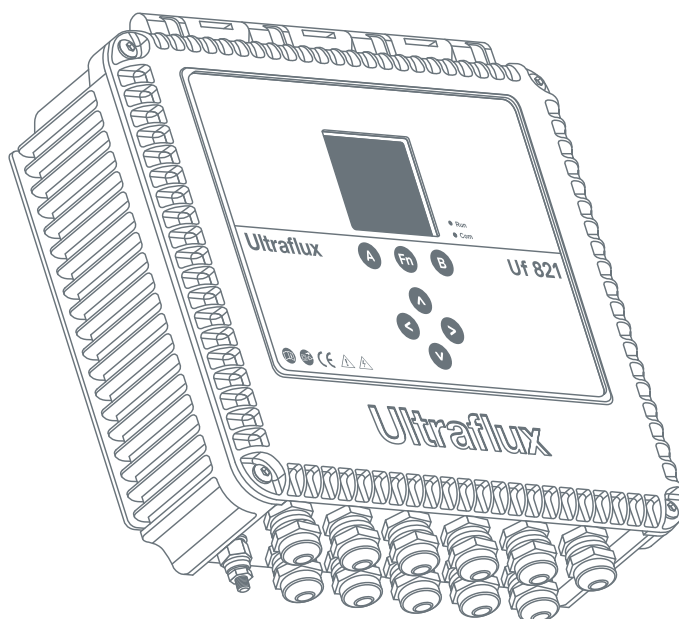
- > Breakdown of the section into 20 height/width points and left/right points
- > Calculation method as per standard ISO 6416

GREAT FEATURES

- > Up to 4 measurement points (4 channels) with a single device
- > Up to 4 speed chords on a single channel

COMPATIBLE

- > All Ultraflux probes or probes already installed*



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

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MODEL	SINGLE CHANNEL	MULTI-CHANNEL	RIVER
NATURE OF EQUIPMENT	Fixed		
MEASUREMENT ON PIPE UNDER LOAD	Yes		
FLOW MEASUREMENT ON OPEN CHANNEL	No		
WIDTH OF CHANNEL	Up to 30 m in clear water		Up to 300 m in clear water
STANDARD MOUNTED INPUTS/OUTPUTS	2 isolated current inputs 4-20mA, 0-20mA, 0-24mA (single module) * * For 4 channels, 2 modules are required (4 inputs)		
IN OPTION, SINGLE INPUT/OUTPUT MODULES	Up to 3 single modules to choose from: > 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)		
USE	Flow measurement in a channel with the ability to incorporate up to 4 speed chords (optimum accuracy for difficult hydraulic conditions)	Flow measurement in 1 to 4 channels with the ability to incorporate up to 4 speed chords (depending on the configuration chosen)	Flow measurement in a river with the ability to incorporate up to 4 speed chords
IN OPTION	> HART protocole		
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 - 1 to 30 variables - up to 536,886 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 and RS485 to JBUS/MODBUS protocol · 115,200 Bauds > USB Port		
POWER SUPPLY	> DC power supply: 10-32 V DC · Peak consumption < 12 W · Average consumption < 6 W > AC power supply: 110-240 V AC · Peak consumption < 15 W · Average consumption < 7,5 W		
ENCLOSURE	> Fibreglass-reinforced polycarbonate V0 · PG11 and PG13 gland connectors > Weight: 3kg · Dimensions: 290 mm x 285 mm x 100 mm		
PROTECTION	IP 67		
TEMPERATURE RANGE	For use from - 20 °C to + 60 °C		

TECHNOLOGY	PERFORMANCES			
ULTRASONIC TRANSIT TIME > Continuous bidirectional measurement SIGNAL ANALYSIS > Digital Signal Process (real time Echo Shape Control, digital filtering and gain control on each firing)	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, gallon... MEMORY CAPACITY > Up to 11 configurations	OTHER IMPORTANT INFORMATION > Ability to incorporate a virtual chord (please ask) > Level measurement not included

