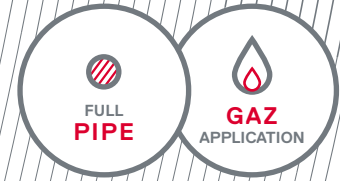


# Uf 821

ULTRASONIC FIXED FLOW METER



MEDIA  
MEASURED  
LIQUIDS  
& GASES



MODELS  
SINGLE PIPE  
MULTI-PIPE

## HIGH PERFORMING

- > Graphic screen
- > Echo, gain and quality index displayed
- > Up to 4 speed chords
- > Optional pression/temperature compensation

## ADAPTIVE

- > Multi-variable data logger
- > Mathematical functions generator
- > Optional input/output modules
- > Optional HART protocole

## RELIABLE

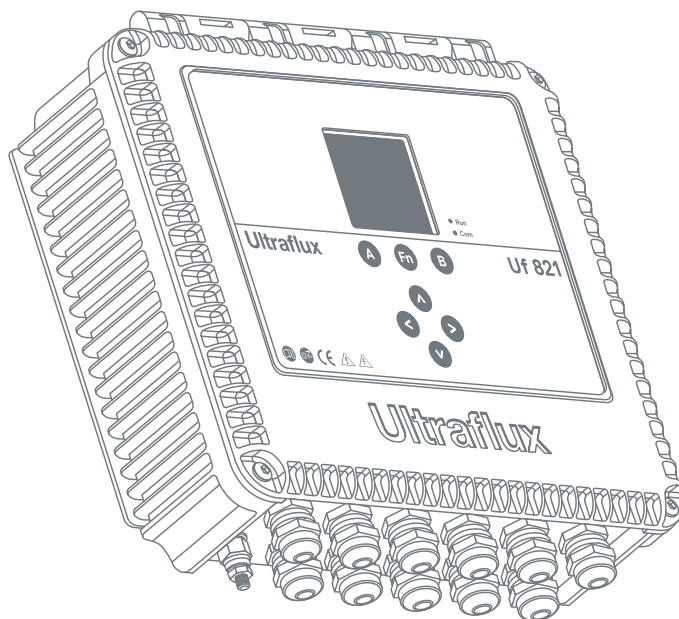
- > Automatic calibration of the zero point on site
- > Auto-diagnostic

## GREAT FEATURES

- > Up to 4 measurement points (4 pipes) with a single device
- > Rapid installation
- > No moving parts, no mechanical wear: little or no maintenance required

## COMPATIBLE

- > All Ultraflux probes or probes already installed\*



## TYPICAL APPLICATIONS

**Drinking/raw water:**  
Flow measurement and metering, system monitoring...

**Waste water:**  
Flow measurement at pumping stations, in systems, inlets/outfalls in treatment works

**Gaz:**  
All type of gases\*

**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



EXPERT IN FLOW METERS  
SINCE 1974

# Uf 821

MODEL	SINGLE PIPE	MULTI-PIPE
NATURE OF EQUIPMENT	Fixed	
MEASUREMENT ON PIPE UNDER LOAD	Yes	
FLOW MEASUREMENT ON OPEN CHANNEL	No	
INTERNAL DIAMETER OF PIPE	From 8mm to 9 900mm approximately (depending on wall thickness)	
EXTERNAL DIAMETER OF PIPE	From 10mm to 10 000mm*	
STANDARD MOUNTED INPUTS/OUTPUTS	—	
IN OPTION, SINGLE INPUT/OUTPUT MODULES	Up to 4 single modules (or 2 dual) 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 pipe with the ability to incorporate up to 4 speed chords	Flow measurement on 1 to 4 pipes with the ability to incorporate up to 4 speed chords
IN OPTION	> Pressure and temperature compensation > HART protocole > Interface detection	
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: 10-32V dc · Peak consumption < 12W · Average consumption < 6W > AC power supply: 110-240V ac · Peak consumption < 15W · Average consumption < 7,5W	
ENCLOSURE	> Fibreglass-reinforced polycarbonate V0 · PG11 and PG13 gland connectors > Weight: 3kg · Dimensions: 290mm x 285mm x 100mm	
PROTECTION	IP 67	
TEMPERATURE RANGE	For use from - 20°C to + 60°C	

TECHNOLOGY	PERFORMANCES			
<b>ULTRASONIC TRANSIT TIME</b> > Continuous bidirectional measurement  <b>SIGNAL ANALYSIS</b> > Digital Signal Process (real time Echo Shape Control, digital filtering and gain control on each firing)	<b>ACCURACY</b> > Up to 0,5%  <b>REPEATABILITY</b> > Up to 0,1%  <b>LINEARITY</b> > Up to 0,1%	<b>TEMPORAL RESOLUTION</b> > 0,1ns  <b>TIME BETWEEN EACH FLOW CALCULATION</b> > 100ms  <b>UNITS OF MEASUREMENT</b> > From litres per second to cubic metres per day	<b>VOLUME METERING</b> > From a millilitre up to 1,000 cubic metres, gallon...  <b>MULTI-LAYER PIPE</b> > Up to three materials taken into consideration  <b>MEMORY CAPACITY</b> > Up to 11 configurations	<b>OTHER IMPORTANT INFORMATION</b> > Laminar and turbulent transitions considered (calculation of the Reynolds number) - except for parallel chords > Freedom to mount probes: modes /, V, N and W

\* For gas, please enquire

NON CONTRACTUAL DOCUMENT

