Uf-821







MEASURED UP TO LIQUIDS & GASES 10000MM



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 > 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 821 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

COMPETITIVE

- Up to 4 measurement points with the same device
- Reduced installation
- & comissioning time



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...

Gas: Measuring on homogenous gas *

Uf<mark>821</mark>

MODEL	SINGLE PIPE VERSION	MULTI PIPE VERSION
TECHNOLOGY	Ultrasonic transit-time flowmeter - Continuous and bidirectional flow metering - 10 flow measurement/s	
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% of flow reading (For pipes above 300 mm velocity of minimum 0,2 m/s requiered)	
REPEATABILITY	Up to 0,1%	
INEARITY	Up to 0,1 %	
/ELOCITY LIMITS	+/- 20 m/s	
TEMPORAL RESOLUTION	0,1 ns	
RESPONSE TIME	Less than 1 second	
DAMPING	Adujustable from 0 to 3600 s	
NTERNAL Ø OF PIPE	From 8mm to 9,900mm approximately (depending on pipe thickness)	
EXTERNAL Ø OF PIPE	From 10mm to 10,000mm	
JSE	Flow measurement in a single pipe with the ability to incorporate up to 4 speed chords	Flow measurements in 1 to 4 pipes with the ability to incor- porate up to 4 speed chords
NPUTS/OUTPUTS IOUNTED AS STANDARD	2 static relay outputs (50 V - 10 mA) usable as frequer	cy outputs (up to 1KHz) - Module 2 (Single)
IN OPTION, SUPPLEMENTARY INPUT/OUTPUT SINGLE MODULES	Up to 4 single or 2 dual modules to choose from: to choose from: 	
DISPLAY	 Graphical LCD screen (14 lines x 20 characters) Backlit screen with time delay feature Flowrate unit from l/s to m³/day 	
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 	
NFORMATION STORAGE	 8MB data logger: time stamping - 1 to 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 m ³	
DPERATING SYSTEM	Windows for transfer of content and operation of logger using common software (Excel) Window XP or later	
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	DC power supply: 10-32 Vdc - Peak consumption < 12W - Average consumption < 6W AC power supply: 110-240 Vdc - Peak consumption < 15W - Average consumption < 7,5W	
ENCLOSURE / IP	Reinforced polycarbonate VO fiberglass • Dimensions 290x285x100mm - Weight 3kg - IP67 / EN / IEC 60529	
TEMPERATURE RANGE	For use from -20°C to 60°C	

