





MEDIA MEASURED LIQUIDS



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PIPE DIAMETERS UP TO 10000MM MODELS SINGLE PIPE MULTI-PIPE

HIGH PERFORMANCE

- > Up to eight speed chords on a single pipe
- Up to 10 input/output modules (analogue, digital)
- > Graphic screen
- Echo, gain and quality index displayed

ACCURATE

- > Accurate up to 0.5%
- > Repeatability up to 0.1%
- Automatic zero calibration

ADVANCED FUNCTIONS

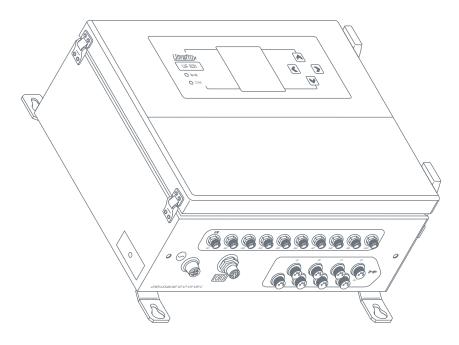
- Mathematical functions generator
- > Multi-parameter data logger
- > Field bus option: Modbus TCP/Modbus RTU

COMPETITIVE

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

ADAPTABLE

Connection of all Ultraflux probes or probes already installed*



TYPICAL APPLICATIONS Waste water and drinking

water: Flow measurement and metering, process control, system supervision Waste water: Measurement of inlet and outlet flows, and flows within the treatment process

Climate engineering: Water metering (hot or cold) for air conditioning

Chemical products, even aggressive liquids:
Process control, system management

Food/farming products

Crude oil: Management of samplers for controlling loading/unloading

Refined oil products or liquefied gas (LPG): Regulation and control of transport system

Energy: calculation of the yield from hydroelectric power stations

* PLEASE ENQUIRE





Uf831

MODEL	SINGLE PIPE	MULTI-PIPE			
NATURE OF EQUIPMENT	Fixed				
INTERNAL DIAMETER OF PIPE	From 8mm to 9,900mm approximately (depending on wall thickness)				
EXTERNAL DIAMETER OF PIPE	From 10mm to 10,000mm				
INPUT/OUTPUT	> With Field bus option: Up to 5 programmable input/output modules > Without Field bus option: Up to 10 programmable input/output modules				
2 MANDATORY BASE MODULES	> 1 isolated active analogue output: current 4-20mA, 0-20mA, 0-24mA (single module) > 2 static relay digital outputs (50V - 10mA) usable on frequency outputs (single module)				
IN OPTION, OTHER MODULES AVAILABLE	> 1 isolated, active analogue output: current 4-20mA, 0-20mA, 0-24mA • Module 1 (single) > 2 static relay outputs (50V - 10mA) usable as frequency outputs (up to 1kHz) • Module 2 (single) > 2 isolated, passive 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 temperature inputs PT100/PT1000 • Module 5 (dual) > 2 contact 5V inputs (pulse or state) • Module 6 (single)				
IN OPTION, CALORIMETRIC FUNCTION	> 2 temperature inputs PT100/PT1000 · Module 5 + 2 probes PT100 + 2 2.5m cables				
USE	Flow measurement in a pipe with the ability to incorporate up to eight speed chords (optimised accuracy for difficult hydraulic conditions)	Flow measurement on 1 to 8 pipes with he ability to incorporate up to eight speed chords (depending on the chosen configuration)			
OPTION, COMMUNICATION PROTOCOL - FIELD BUS -	Choice of 2 buses: > Modbus TCP > Modbus RTU Note: physically takes the place of 5 input/output modules				
DISPLAY	> Numeric and graphical (14 lines x 20 characters) > Backlit LCD 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 data items > 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				
SERIAL LINK	RS232 or RS485 to JBUS/MODBUS protocol • 115,200 Bauds				
CHOICE OF POWER SUPPLY	Low voltage: 9-36V dc • Mains: 110 to 240V ac				
ENCLOSURE	Stainless steel 304, epoxy paint • Plug-in connectors • 8kg • 300 x 346.5 x 148mm				
PROTECTION	IP67 (except with field bus option: IP20)				
TEMPERATURE RANGE	For use from -10°C to 50°C				

JLTRASONIC TRANSIT	ACCURACY	TEMPORAL RESOLUTION	VOLUME METERING	ANOTHER IMPORTANT DETAIL
TIME	> Up to 0.5%	> 0.1ns	> From a millilitre	> Laminar and turbulent
Continuous bidirectional measurement	t REPEATABILITY	TIME BETWEEN EACH	up to 1,000 cubic metres	transitions considered (calculation of the Reynolds
SIGNAL ANALYSIS	> Up to 0.1%	> 100ms	MEMORY CAPACITY	number) - except for
By double Digital Signal	LINEARITY	· roome	> Up to 11 configurations	parallel chords
Process (real-time Echo	> Up to 0.1%	UNITS OF MEASUREMENT		> Freedom to mount probes:
Shape Control, digital		> From litres per second		modes /, V, N and W
filtering and regulation		to cubic metres per day		
of gain on each firing)				

TECHNOLOGY PERFORMANCES

