

# Uf 841

## ULTRASONIC FIXED FLOW METER



MEDIA  
MEASURED  
LIQUIDS  
& GASES



MODELS  
SINGLE PIPE  
MULTI-PIPE



EXPLOSION-PROOF  
ENCLOSURE  
FOR USE IN EXPLOSIVE  
ATMOSPHERES

CE 0081  II 2 G D  
Ex d IIC T6 Gb  
Ex tb IIIC T85°C Db IP 66/67  
INERIS 13 ATEX 0054 X  
IECEX INE 13.0068 X  
-20°C ≤ Tamb ≤ +50°C

### HIGH PERFORMING ADAPTIVE

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

### RELIABLE

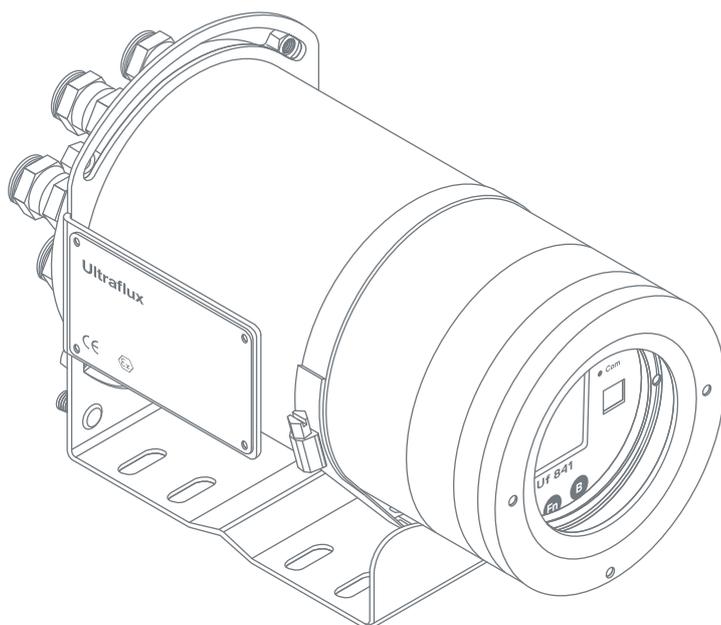
- > Multi-variable data logger
- > Mathematical functions generator
- > Optional Input/output modules
- > HART protocole

### COMPATIBLE

- > All Ultraflux probes or probes already installed\*

### ROBUST

- > 316 Stainless Steel enclosure



### TYPICAL APPLICATIONS

Hydrocarbons:  
All monophasic liquids/gases\*  
Offshore

\* PLEASE ENQUIRE

# Ultraflux



EXPERT IN FLOW METERS  
SINCE 1974

# Uf 841

MODEL	SINGLE PIPE	MULTI-PIPE
NATURE OF EQUIPMENT	Fixed - for use in explosive atmospheres	
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: <ul style="list-style-type: none"> <li>&gt; 1 isolated, active analogue output: current 4-20mA, 0-20mA, 0-24mA · Module 1 (Single)</li> <li>&gt; 2 static relay outputs usable as frequency outputs (up to 1kHz) · Module 2 (Single)</li> <li>&gt; 2 isolated current inputs 4-20mA, 0-20mA, 0-24mA · Module 3 (Single)</li> <li>&gt; 2 isolated, passive analogue 0-10V inputs: 0 to 15V voltage · Module 4 (Single)</li> <li>&gt; 2 PT100/PT1000 temperature inputs - taking up the physical space of 2 modules · Module 5 (Dual)</li> <li>&gt; 2 contact 5V inputs (pulse or state) · Module 6 (Single)</li> </ul>	
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	<ul style="list-style-type: none"> <li>&gt; Pressure and temperature compensation</li> <li>&gt; HART protocole</li> </ul>	
DISPLAY	<ul style="list-style-type: none"> <li>&gt; Graphical LCD screen (14 lines x 20 characters)</li> <li>&gt; Backlit screen with time delay feature</li> </ul>	
TROUBLESHOOTING HELP	Oscilloscope function (echo displayed) · Gain · Quality index	
SET-UP	<ul style="list-style-type: none"> <li>&gt; Quick and simple - by 7 - key touchpad with 2 dynamically allocated - or - via dedicated software supplied</li> <li>&gt; Possible to build in an access code</li> </ul>	
INFORMATION STORAGE	<ul style="list-style-type: none"> <li>&gt; 8MB data logger: time stamping - 1 to 30 variables - up to 536,886 lines</li> <li>&gt; Logging frequency from 1 second to 24 hours</li> </ul>	
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	<ul style="list-style-type: none"> <li>&gt; Serial link RS232 or RS485 to JBUS/MODBUS protocol · 115,200 Bauds</li> <li>&gt; USB Port</li> </ul>	
POWER SUPPLY	<ul style="list-style-type: none"> <li>&gt; DC power supply: 10-32 V DC · Peak consumption &lt; 12 W · Average consumption &lt; 6 W</li> <li>&gt; AC power supply: 90-260 V AC · Peak consumption &lt; 15 W · Average consumption &lt; 7,5 W</li> </ul>	
ENCLOSURE	<ul style="list-style-type: none"> <li>&gt; Robust and compact · 316 Stainless Steel · ISO M20 gland connectors</li> <li>&gt; Weight: &lt; 12kg · Dimensions: 267 mm x 166 mm x 166 mm</li> </ul>	
PROTECTION	IP 66 & IP 67	
TEMPERATURE RANGE	For use from - 20 °C to + 50 °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

