

Uf-841



FIXED ULTRASONIC FLOWMETER - ATEX




media measured liquids & gases



models single pipe multi-pipe



explosion-proof enclosure
For use in explosive atmospheres

ce 0081  ii 2 g d
exd iic t6 gb
ex tb iic t85°C db ip 66/67
ineris 13 atex 0054 x
iecex ine 13.0068 x
-20°C ≤ tamb ≤ +50°C

HIGH PERFORMING

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

ADAPTIVE

- › Multi-variable data logger
- › Mathematical functions generator
- › Optional input/output modules
- › Optional HART protocol

RELIABLE

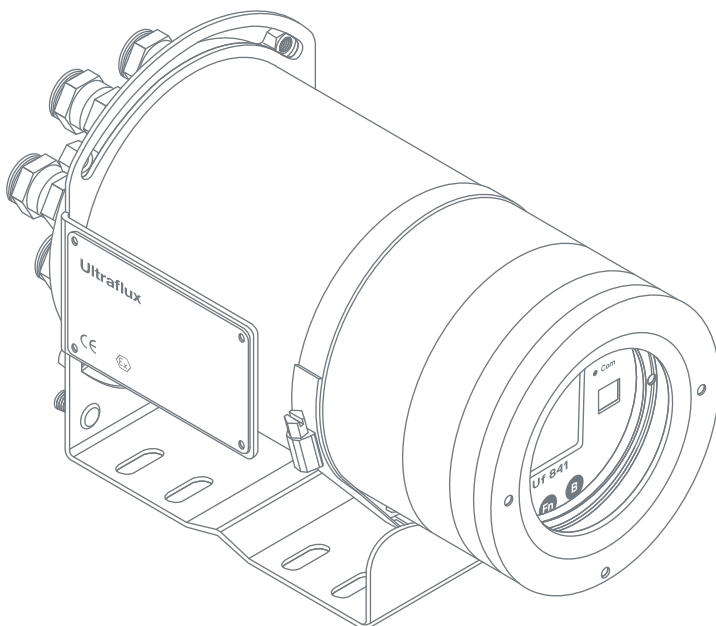
- › Automatic calibration of the zero point on site
- › Auto-diagnostic

COMPATIBLE

› all ultraflux probes or probes already installed*

ROBUST

› 316 stainless steel enclosure



TYPICAL APPLICATIONS

HYDROCARBONS:

High pressure gas flow measurement, injected water flow measurement, crude oil flow measurement, condensate flow measurement, injection media flow measurement...

OFFSHORE:

Gas flow measurement, monophasic liquids flow measurement, refined products and crude oil flow measurement...

* 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	2 static relay outputs (50 V - 10 mA) usable as frequency outputs (up to 1KHz) - Module 2 (Single)	
IN OPTION , single input/output modules	up to 4 single modules (or 2 dual) to choose from: <ul style="list-style-type: none"> › 1 isolated, active analog 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	<ul style="list-style-type: none"> › Pressure and temperature compensation › Interface detection › Hart protocol › Stainless steel gland connectors 	
Display	<ul style="list-style-type: none"> › 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	<ul style="list-style-type: none"> › 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	<ul style="list-style-type: none"> › 8mB data logger: time stamping - 1to 30 variables - up to 536,886 lines › logging frequency from 1second 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	<ul style="list-style-type: none"> › Serial link RS232 or RS485 to JBUS/MODBUS protocol • 115,200 Bauds › USB port 	
Power supply	<ul style="list-style-type: none"> › 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	<ul style="list-style-type: none"> › Robust and compact • 316 Stainless Steel • ISO M20 gland connectors › Weight: < 12kg • Dimensions: 267mm x 166mm x 166mm 	
Protection	IP 66 & ip 67	
Temperature range	For use from - 20°c to + 50°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... MULTI-LAYER PIPE › up to three materials taken into consideration MEMORY CAPACITY › up to 11configurations	OTHER IMPORTANT INFORMATION › 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

SEZTEC USA - An authorized distributor

Tel: +1.816.204.0808
 E-mail: info@seztec.com
 Web: www.seztec.com