Uf-841

FuLL PIPE

GAZ APPLICATION

FIXED ULTRASONIC FLOWMETER - ATEX

media measured
liquids & gases

models
single pipe
multi-pipe

explosion-proof enclosure
For use in explosive atmospheres

ce 0081 ⟨Ex⟩ ii 2 g d
exd 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

- 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 protocol

RELIABLE

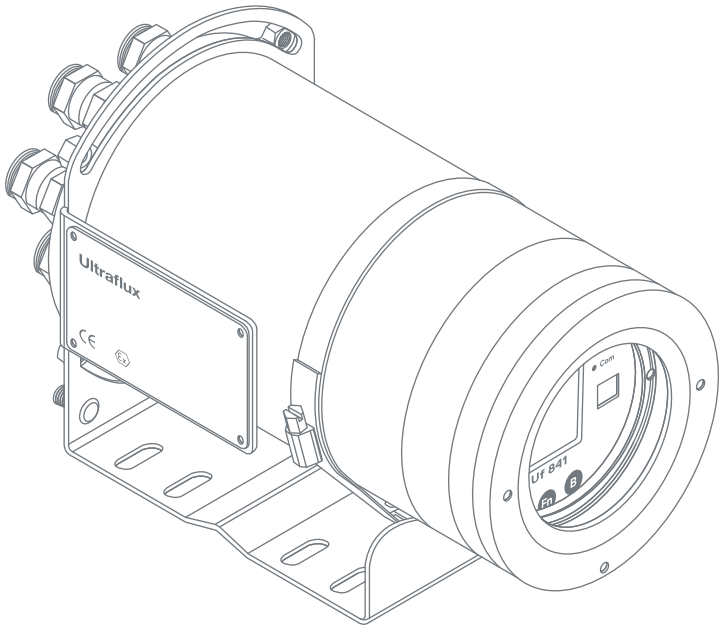
- Automatic calibration of the zero point on site
- Auto-diagnostic

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…

* pleaseenquire

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: › 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	› Pressure and temperature compensation › Interface detection › Hart protocol › Stainless steel gland connectors	
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 - 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	› Serial link RS232 or 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	› 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

ULTRASONIC TRANSIT TIME
› continuous bidirectional measurement

SIGNAL ANALYSIS
› digital signal process (real time echo shape control, digital filtering and gain control on each firing)

performances

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

Ultraflux
Débitmètres à ultrasons
Une marque de FAURE HERMAN