

# UF25B

## ULTRASONIC FLOW METER



This innovative design provides a high accuracy, non-invasive, flow measurement device at a fraction of the cost of other current non-invasive systems. The unique measurement technique automatically compensates for viscosity and temperature variations. The measurement of flow is by ultrasonic transit time in-line cell.

The flow path is designed to minimize pressure drop and, having no moving parts within, will not clog or jam. The sensor also allows contaminants to pass through without affecting its performance.

The sensor is supplied with pulse and analogue outputs, which are selectable by connection wires.

### Features

- Non-invasive sensor technology
- Fully electronic, no moving parts
- Automatic viscosity and temperature compensation
- Pulse or analogue output selectable
- Low pressure drop
- LED indication of no liquid & of flow rate

## SPECIFICATIONS

### Technical

<b>Max. Flow l/min (Q4)</b>		25	
<b>Transitional Flow l/min (Q2)</b>		0.5	
<b>Min. Flow l/min (Q1)</b>		0.2	
<b>Output Selectable</b>	Pulse		Analogue

### Performance

<b>Accuracy for Flow Rates Between Q2 and Q4</b>	3% of reading
<b>Accuracy for Flow Rates Between Q1 and Q2</b>	5% of reading
<b>Resolution Better Than</b>	0.001 l/min
<b>Flow Range</b>	0-25 l/min
<b>Response Time</b>	Better than 0.1s

### Interface

<b>Connection 8 Wires</b>	RED supply +ve, BLACK ground, Blue NPN output, Yellow - factory use only, White PNP output, Orange Voltage output, Brown Current output, Green Ground connected internally to black		
<b>Supply</b>	8 - 24VDC (input current <10mA @ 9VDC)		
<b>Output Selectable</b>	1000 pulses/L	0-5Vdc	4-20mA

## Operation

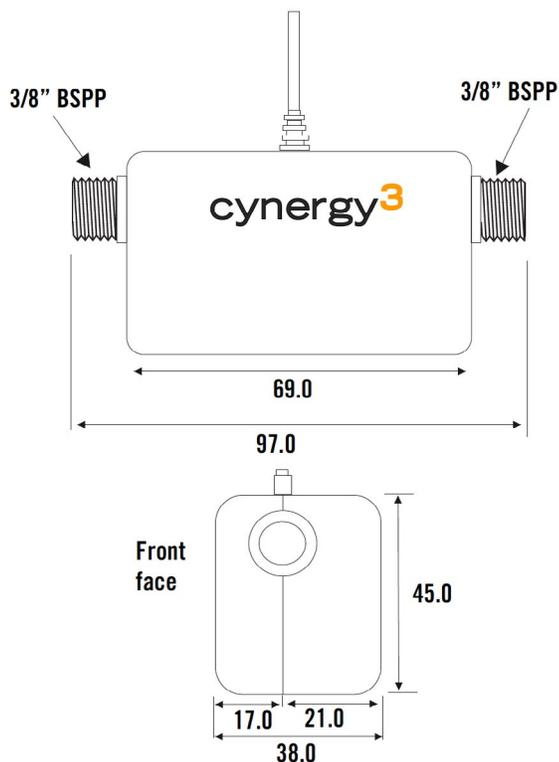
<b>Principle</b>	Ultrasonic transit time in-line flow cell
<b>Temp. Range (fluid)</b>	-10°C to +85°C
<b>Continuous Fluid Sound</b>	Maintains performance regardless of fluid type, temperature or viscosity for speed measurement fluids with sound speeds 1250 - 1750 m/s
<b>Green LED Definitions</b>	Flashing with 5 second break = power present, no liquid present Constant flashing = power present, flow present Always on = power present, liquid present, no flow

## Physical Characteristics

<b>Flow Tube Material</b>	Glass filled plastic, Grivory HT1V-4FWA Black 9225 (FDA and EU approved for foodstuffs)
<b>Flow Tube Internal Diameter</b>	10mm
<b>Connection Thread</b>	3/8" BSP Parallel
<b>Internal Bore of Connection</b>	10mm
<b>Suitable Pushfit Adapter (to fit 1/2" OD Tube)</b>	John Guest Speedfit PI451613S
<b>Maximum Pressure</b>	10 bar
<b>Case Material</b>	ABS black, Polylac PA-757
<b>Case Integrity</b>	Ultrasonically welded
<b>Connection</b>	8 core, PVC sheathed, 100cm long standard
<b>Environmental Protection</b>	IP66 level of protection

## DIMENSIONS

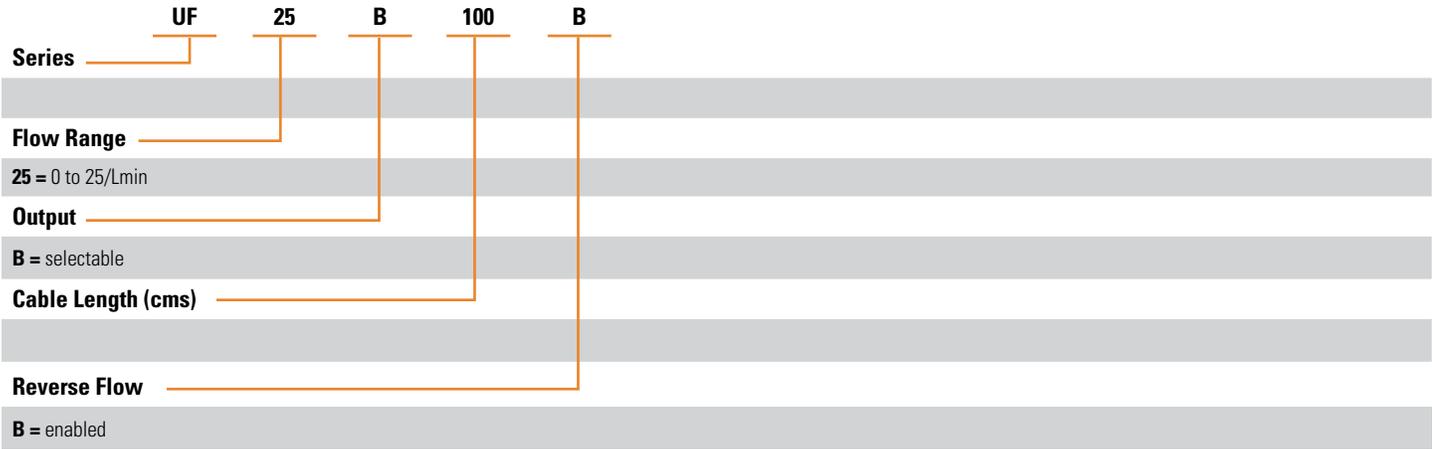
All dimensions are in millimeters.





# ORDERING OPTIONS

Example : UF25B100B



Made in the UK

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