

## Ultrasonic Level Transmitter

U80 Series

Data Sheet

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U80 Series

- Compact low profile self-contained intelligent level measurement
- Calibrate without compromising IP rating
- Small 1.5" entry thread (2" on 10m version)
- Simple menu led set-up
- High acoustic power with narrow beam angles
- 125mm deadband on 3m version
- Agitator avoidance as standard
- Accuracy +/-0.25% or 6mm whichever is greater
- Resolution +/-0.1% or 2mm whichever is greater



The U80 range is a non-contacting ultrasonic level measurement without compromise. All-in-one self contained units with the benefit of digital echo processing. Program via the integral keypad or using IMPview, the U80's own PC software that lets you program the unit, view and download echo profiles and parameters.

There is a U80 to suit your application, 3m, 6m and 10m range versions are available with 2-wire intrinsically safe (IS) (pending). All U80's feature LCD display and digital temperature measurement and compensation. U80 may be wired as a 2 or 3 wire device, each giving choices on outputs.



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## U80 Series

### U80 Applications

You can use U80 wherever you need reliable non-contacting level measurement: digital echo processing means U80 is perfect for solids or liquids, sumps, tanks, silos. Anywhere you need a display telling you the level, or an analogue output to interface with your site control system or drive a display.

### Simple to Install

The compact U80 is only 175mm high with a 130mm diameter. Cable glands are provided and U80 can be simply screwed into a 1.5" or 2" fitting (a 1.5" to 2" adaptor is available). High transducer power and tight beam angles, together with digital echo processing, makes U80 ideal for many "difficult" applications such as dusty or foamy environments, or where a tank has unavoidable intrusions. The integral display makes programming U80 extremely straightforward. U80 can be completely set up, without compromising the IP rating, using the integral keypad alone with no need for a PC.

Optional IMPview PC software makes it easy to fine tune U80's performance and "clone" any number of U80 units to the same settings if, for example, they are being used on a tank farm.

### Technical specification

Physical:	Dimensions: Cable entry: Mounting: Weight:	175mm overall height x 130mm diameter 2 off cable glands 4.5 -10mm 1.5" BSP or NPT (3m and 6m range versions), 2" BSP or NPT (10m version) Approximately 1kg
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Environmental:	Temp range (process): Temp range (ambient): IP Rating:	-40degreeC - +85degreeC (-40degreeC - +57degreeC for I.S. version) -20degreeC - +65degreeC IP67
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Variants:	U80- 3	U80- 6	U80- 10
Beam angle (-3dB half power)	10 degree inclusive	10 degree inclusive	10 degree inclusive
Operating frequency	125kHz	75kHz	41kHz
Measurement range	0.125m-3m	0.3m-6m	0.3m-10m

U80 may be wired as either a 2-wire or 3-wire, giving features below:

2-wire configuration:	RS232 (RJ11 port) connection for diagnostics and software updates 4 digit LCD display 4 button keypad for parameter entry Power consumption: 3.8 – 22mA
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3-wire configuration: (additional to 2-wire)	Backlit LCD display 0-10V analogue output 2 relays: single pole two way, 1A 30VDC/AC
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