



Logger/transmitter unit with high resolution DFU transducer

# 

## Features:

Fully BS 3680 compliant measurement for flumes and weirs User-friendly : easy installation and configuration Accommodates Flow, temperature and pH monitoring

**OPEN CHANNEL FLOW** 

MEASUREMENT

56 days of memory

24-point look up table for non-standard devices

Versatile windows based reporting software High resolution 80 KHz sensor

### **Applications:**

Municipal & Industrial Effluent monitoring Drainage & irrigation ditch monitoring Complete solution for trade effluent data logging of pH, T, Flow Flow pacing of samplers

*FlowSys-Aqualogger* is a downward facing ultrasonic (DFU) level sensor, flow converter & logger, measuring flow in open channels in conjunction with a variety of primary devices, or custom calibrated against head using a programmable 24 point look up table.

Four programmable relays are available and may be used for flow paced sampling, and high /low alarms for pH/Temp/flow. One analogue output for flow rate is also provided.

Data display is via a 4 linex20 character backlit scrolling display giving: Flow rate, total flow, interval flows, distance to water surface, pH & Temp (where applicable), date and time.

The internal data logger has 125K non volatile memory giving 56 days data at 5 minute intervals, (expandable to 4mB & 3 yrs). Data download is either direct to PC, or remotely via modem, and a full analytical software package for tabular and graphical analysis comes with each unit

#### Benefits:

Easy operation and programming Practically maintenance free No moving parts No sensor fouling due to non contact operation 3 off 24 hr summaries may be displayed whilst still operating Integration with GPRS provides remote monitoring of all parameters Automatic generation of hard copy reports within a 1-24hr period



www.envitech.co.uk



# System

Operational Principle:	Downward facing ultrasonic interface detection and depth calculation		
Range:	distance of interface from sensor 0.25m to 6m		
Resolution:	1mm		
Accuracy:	Better than ± 0.1% of measured distance		
Data Storage:	125K mB expandable to 4 mB		
Pre&programmed primary devices: V&notch thin plate weir, rectangular thin plate weir, rectangular BS			
	Flume.		
Non standard stuctures:	24 point programmable look up table		

# Transmitter/Controller Specification

Mechanical Construction:	Dimensions (hxwxd) Weight:	217 x 263 x 132 mm <1 kg
	Materials:	Polycarbonate
	Ambient conditions:	&0 to +50° C
	Weather Protection:	IP 65
Outputs:	Display:	4&ine x 20 character backlit LCD
•	Current loop:	1 off 4 &20 mA, galvanic isolated (max. 500 Z)
	Relay outputs:	4 off SPCO 5A 230VAC non inductive
	<i>,</i>	1 off lost echo relay
Inputs:	4&0mA:	1 off for pH measurement
	Data interface:	RS 232/422 for communications and data download
Power requirements:	Supply voltage:	230 / 115 V AC, or factory set at 24VAC/DC
	Load:	20VA

## Sensor assembly Specification

Mechanical Construction:	Materials:	HDPE
	Weight:	0.6Kg
	Dimensions:	71mm max dia. 72mm depth + 30mm stub
	Cable length:	Specify at order. Max= 50m. (greater distances
		are possible but require extra hardware –
		please consult at time of order)
	Mounting:	Threaded stub: M20 (male) + damping washers
	Distance to TWL:	Recommended that sensor surface be at least
		600mm above TWL
	Operating Frequency:	80KHz
	Dead Band:	250mm
	Beam angle:	6 ° about central axis
	Ambient Temp:	& 0 to +40° C
	Accessories:	Sensor sun shade for outdoor applications
		Sensor mounting bracket

### Ordering Information

When placing an order it is important to indicate the following requirements to our sales staff:

- 1. Is transmitter to be wall mount or rail mount? If rail what is rail diameter? Do you want a rail mounting kit?
- 2. How far is the sensor from the transmitter?

- Is a sensor mounting bracket required?
  Is a sun shade required?
  What power supply Voltage is to be used?
- 6. Is a secondary housing for the transmitter required for extra protection?
- 7. Do you require a primary device or advice on suitability?

Supplied by: Envitech Ltd. Unit S7, Capital Business Park, Parkway, Cardiff, CF3 2PU Tel: 02920 364252, Fax 02920 369876, E-mail: sales@envitech.co.uk

Note To End Users : These specifications are subject to change at any time without notice. Envitech Ltd takes no responsibility for the use of these figures. Please consult Envitech Ltd for the latest specifications before using them in tender submissions or third party quotes... Envitech Ltd reserves the right to change specifications without prior warning. All quoted figures are based on test conditions and are subject to variation due to site conditions.