

## BORE HOLE LEVEL TRANSMITTER

Inground tanks, wells,  
bore holes and reservoirs

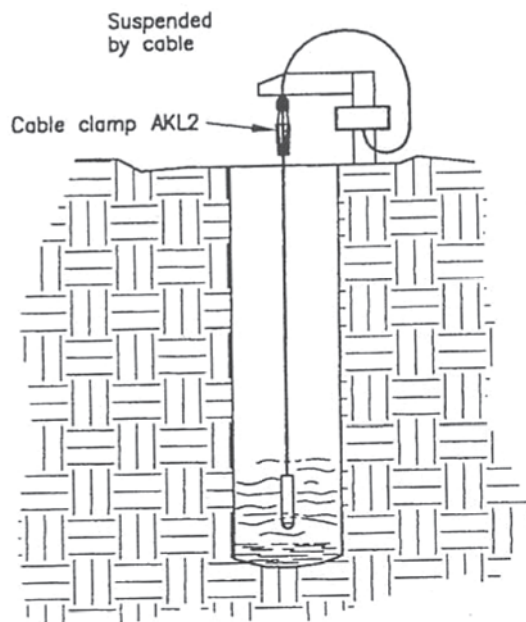
Separate weatherproof  
electronics with zero and  
3:1 span adjustment

High lightning and surge  
tolerance

25mm Sensor Diameter



### TYPICAL SENSOR INSTALLATION



**IS SENSOR INSTALLATION**  
Bore hole/ Well Installation

The 700 Series electronic hydrostatic level transmitter has been developed to meet the requirements of a small diameter sensor for narrow boreholes and existing in ground tanks with limited access.

The use of a Flush Metal Diaphragm and L.V.D.T. sensor gives electrical isolation between process liquid and electronic circuit together with high lightning/surge tolerance to the complete instrument.

Split architecture construction allows all electronics and adjustments to be contained in a weatherproof enclosure remote from the submersible sensor facilitating range and zero adjustment and any service that may be required without removal of the sensor. The instrument meets I.E.C. 801 covering interference and surge, and E.U. Electromagnetic compatibility Directive.

The Type 316 Stainless Steel Body has a welded Flush Hastelloy C276 Diaphragm and is suspended by a Teflon Sheathed Cable, with special glanding proven in Depth Applications.

## Specifications

### Accuracy

±0.25 % of full range output; includes effects of linearity hysteresis and repeatability. (Optional 0.1% some models).

### Overload

500% of nominal range

### Operational Temperature

Sensor 20°C to +85°C

Transmitter 10°C to +55°C

### Weather Proof Protection

Sensor IP68 to maximum depth

Transmitter IP65

### Span Adjustment

0-30 % to 0-100 % of nominal range

### Zero Adjustment

±10 % of span

### Weight

Code IS with 3 metres of cable and transmitter 2.0kg

### Sensor

Size 25mm Dia x 110mm (plus 40mm cable connections). Codes ISP and IS

### Power Supply

12 to 30 Volts DC loop powered

### Output

2 wire 4-20mA DC

### Maximum Load

$\frac{\text{Supply voltage} - 10}{0.02} = \text{OHMS}$

### Construction

#### Sensor

Stainless steel 316L body, Hastelloy C276 diaphragm. (Nylon protection. End cap on IS sensor installation). Support pole and flanges stainless steel.

#### Cable

Teflon sheathed screen and breather

#### Nominal Range

4, 8, 16, 32, 50, 100 metres at SG 1.0

#### Optional Indicator

Digital integral with transmitter. Linear display hydrostatic head or mA output.

## Order Code

700	CODE	SENSOR INSTALLATION ARRANGEMENT					
	IS	Suspended by Cable					
	IF	Internally mounted on stainless steel support pole with 1" 150lb ASA Flange (2M pole in base price)					
	ISP	Internally suspended with 2" B.S.P.T. Plug Fitting					
		CODE	SENSOR CONSTRUCTION				
		SH	Stainless Steel Body Hastelloy Diaphragm				
			CODE	ACCURACY, LINEARITY, HYSTERESIS AND REPEATABILITY			
			S	0.25% of nominal range			
			H	0.1% of nominal range			
			CODE	NOMINAL RANGE			
			4	0 – 4 metres maximum at SG1.0			
			8	0 – 8 metres maximum at SG1.0			
			16	0 – 16 metres maximum at SG1.0			
			32	0 – 32 metres maximum at SG1.0			
			50	0 – 50 metres maximum at SG1.0			
			100	0 – 100 metres maximum at SG1.0			
			CODE	SPAN			
			XX	Specific actual span in mm			
			CODE	CABLE INTERCONNECTING SENSOR TO TRANSMITTER			
			X	Cable length in metres (3m included in base price)			
700	IS	SH	S	16	15000	20	TYPICAL ORDER CODE

## Optional Extras

- Integral digital indicator
- Reference port for sealed tanks
- Special Ranges
- Remote analogue and digital indicators
- Intrinsically safe barriers
- Mains to 28 volts D.C. power supply
- Cable clamp AKL2 for suspended version
- Extended temperature range



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