

# MODEL 4000

## 4~20mA LOOP POWERED LIQUID LEVEL TRANSMITTER

- Made in South Africa
- Easy Installation
- Robust Construction

A simple and reliable method for the measurement of liquid level in a tank.

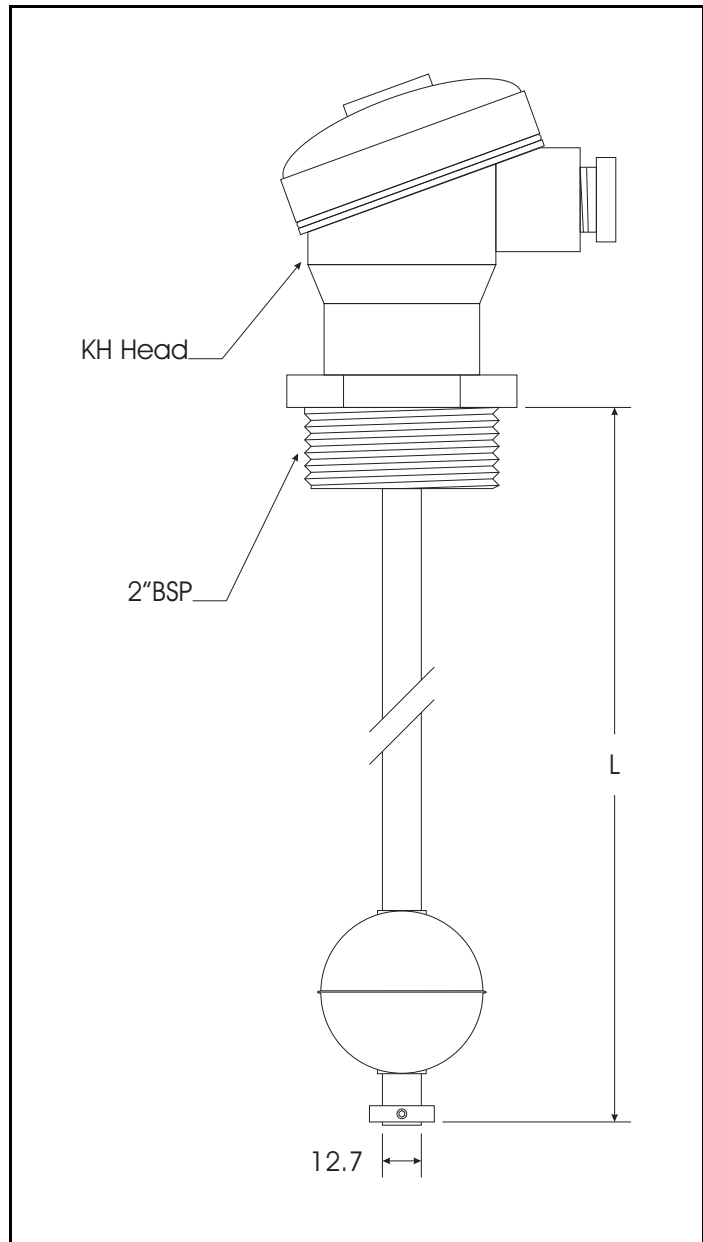
All that is required is a 2" BSP fitting in the top of the tank. As the float is smaller in diameter than the fitting the whole assembly is simply mounted from the top.

Inside the tube is a chain of resistors with magnetic reed switches connected at each junction. The reed switches are activated by a magnet in the float giving an output similar to a potentiometer. This is converted into a 4~20mA signal by a module mounted in the head so that the output is proportional to the liquid level. Zero and span trimmers are available for fine adjustment on site.

This system is suitable for most types of liquids including aqueous and non-aqueous media.

The low energy requirement of the reed switches plus the isolation between the liquid and the electronics produces an inherently safe design.

Exia certification is available as an option.



### Specifications

Head	Cast Aluminium Epoxy Coated	O.D. 65mm
Tube	316 Stainless steel	O.D. 12.7mm
Float	316 Stainless steel	O.D. 52mm I.D. 15mm
Top fitting	316 Stainless steel	2" BSP
Float stop	316 Stainless steel	
Maximum Length		6 metres
Resolution		5mm or 10mm
Output		4~20mA 2-wire
Supply Voltage		10~32V DC
Max. Operating Pressure		1 MPa
Operating temperature range	Float & reed chain assy.	-20 ~ 150°C
	Electronics in head	-5 ~ 65°C

Specifications subject to change without notice.



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**IQ INSTRUMENTS (Pty) Ltd**

### Ordering Information

4000 - Length - Resolution - Certification

Length	Specify	mm.
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Resolution	10	10mm
	5	5mm

Certification	Blank	None - standard
	X	Exia

**Example: 4000-1500-10**  
= 1500mm overall length, 10mm resolution, no certification