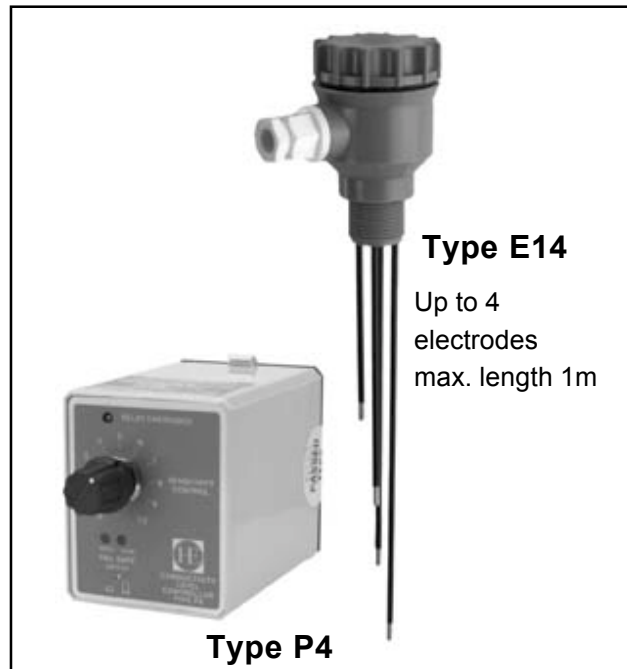


Liquid Level switch - conductive TYPE E14 + P4

FEATURES

- Up to 4 x 1m long electrodes
- Polypropylene electrode holder
- 3/4" BSP thread
- Atmospheric pressure and 60° max
- Din rail mounted controller
- Controls 2 x levels or alarms
- Suitable for conductive liquids
- Very precise level detection
- Protection against dry running
- Prevents Pump overrun
- Simple 'Low Cost' installation
- Wide selection of electrodes
- Intrinsically Safe Option (P5/BAR)



Type E14

Up to 4
electrodes
max. length 1m

Type P4

TECHNICAL FEATURES FOR E14 ELECTRODE HOLDER

Accommodates up to four 1/8" diameter electrodes. Moulded in polypropylene with a screw on cap. Mounting thread is 3/4" B.S.P. and a lock nut is provided. Screwed conduit entry is 20mm. All electrodes are plastic coated to prevent tracking. For applications where excessive moisture is present, cables may be connected at works and the terminals potted. Two spacers are included to separate the electrodes (Pt. No. 216).

For use at normal atmospheric pressure and temperatures between -20°C and + 60°C. Not suitable for aggressive liquids which attack polypropylene.

Technical Data - Type E14

Material	SS Type 316 Titanium	Electrode Material	S.S. S.S. Titanium
Dia. before Coating	1/8" (3.2mm) 1/8" (3.2mm)	Plastic Coating Type	Epoxy Coated Thermomelt Epoxy Coated Fusion Bonded Epoxy Coated Thermomelt
Max. Length	1.0m 0.97m	Colour	Black Green Blue

PRESSURE-VACUUM-LEVEL LTD

Unit 9, Lexden Lodge Industrial Estate, Jarvis Brook,
Crowborough, East Sussex, TN6 2EG U.K.

Tel: +44(0)1892 66 44 99 Fax: +44(0)1892 66 36 90

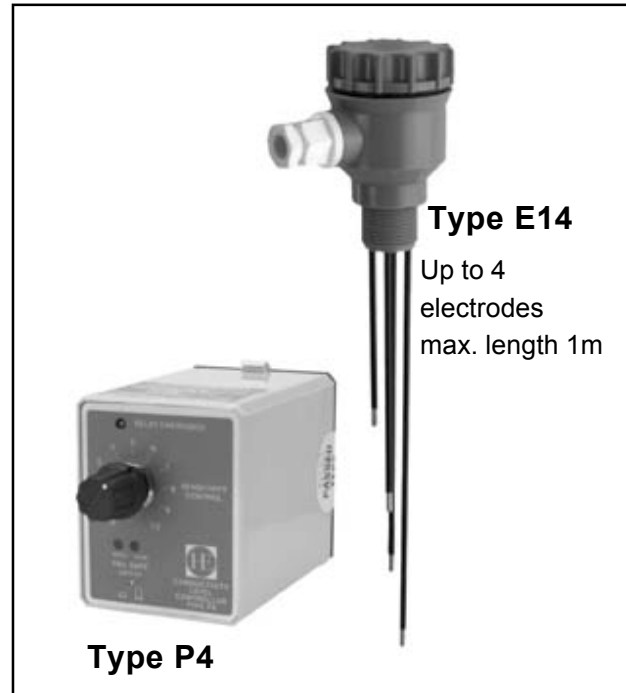
Web: www.pvl.co.uk Email: info@pvl.co.uk



Liquid Level switch - conductive TYPE E14 + P4

PRINCIPLE OF OPERATION

Relies on the conducting properties of liquids to complete an electrical circuit between the electrode and the metal tank. For non-metal or coated tanks, the earth path may be through the pump pipework. Alternatively, an earth electrode extending below the lowest active electrode may be fitted. Normally mounted vertically, pressure tight electrodes are available for side entry if required. A low voltage A.C. signal is used on the electrodes to prevent electrolysis.



Type E14

Up to 4
electrodes
max. length 1m

Type P4

TECHNICAL DATA FOR P4 Controller

Technical Data Type P4 - Conductivity Level Controller			
Supply Voltage	110v or 230v 50/60Hz Also 24v or 48v 50/60Hz	Supply Tolerance	+10% to -20%
Power Consumption	6vA max.	Input(s)	Upto 2 level electrodes plus earth return remotely mounted
Ambient Temperature	-10C to + 60C	Sensitivity	Adjustable 100 ohms to approx. 18,000 ohms Higher values up to 500,00 ohms avail.
Switching Differential	5% of sensitivity setting (e.g. less than 50 ohms at 1000 ohms sensitivity)	Relay Output	Double pole changeover voltage free contacts. Contacts rated 4A @ 250v A.C. resistive
Indication	Red L.E.D showing relay energised. Green L.E.D.'s (2) Failsafe mode and power status	Connections	11-pin DIN rail/surface mounting base (Optional extra) (8-pin for P3)
Intrinsic Safety	P5/BAR version when used with zener diode barrier forms an INTRINSICALLY SAFE system (Zone 0)	Distance of Controller to electrodes	Nominally 100m but greater distances using standard cable possible

PRESSURE-VACUUM-LEVEL LTD

Unit 9, Lexden Lodge Industrial Estate, Jarvis Brook,
Crowborough, East Sussex, TN6 2EG U.K.

Tel: +44(0)1892 66 44 99 Fax: +44(0)1892 66 36 90

Web: www.pvl.co.uk Email: info@pvl.co.uk

