ΗΛΕΚΤΡΟΔΙΑ ΣΥΝΑΓΕΡΜΟΥ ΑΝΩ ΣΤΑΘΜΗΣ





LP31 Level Probe



CHRYSSAFIDIS

TI-P402-81

Description

The Spirax Sarco LP31 is used in conjunction with an LC3000 controller to provide a high integrity, self-monitoring alarm for detection of high water levels in steam boilers and other vessels. The probe is normally installed direct in the boiler shell in a protection tube, but can be mounted in an external chamber if regulations

permit. The LP31 is supplied in three nominal tip lengths, and is cut to the

exact length required prior to installation. In normal operation, the tip is above the water level, and has a high resistance path to earth. If the water level rises to touch the probe tip, the resistance to earth drops, causing the alarm relays in the controller to be de-energised and the alarm to sound.

The LP31 is designed so that its tip and wiring connection integrity is monitored by the controller, causing an alarm signal in the event

of a fault occurring. The LP31 can also be used as a simple (non self-monitoring) high or low level probe with an LC1300 level controller. A DIN 43650 cable socket with Pg 11 cable gland is supplied with

the unit.

Available tip lengths mm (in)

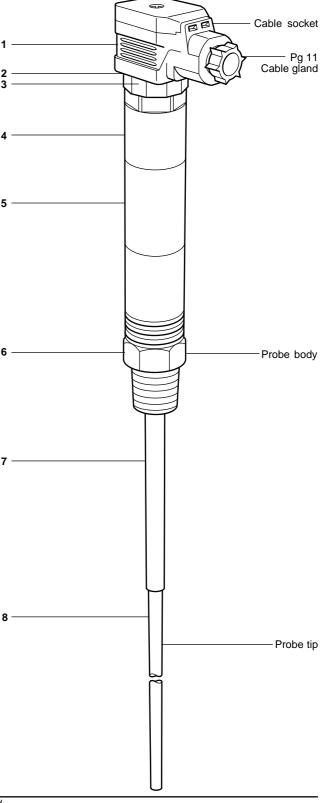
500 (19.7), 1000 (39.4) and 1500 (59).

Limiting conditions

Maximum boiler pressure		
Maximum temperature		
Maximum ambient temperature		
Maximum probe cable length		
Cable socket protection rating		
LC1300	1 µS/cm or 1 ppm	
LC3000	30 µS/cm or 30 ppm	
	perature ength rating LC1300	

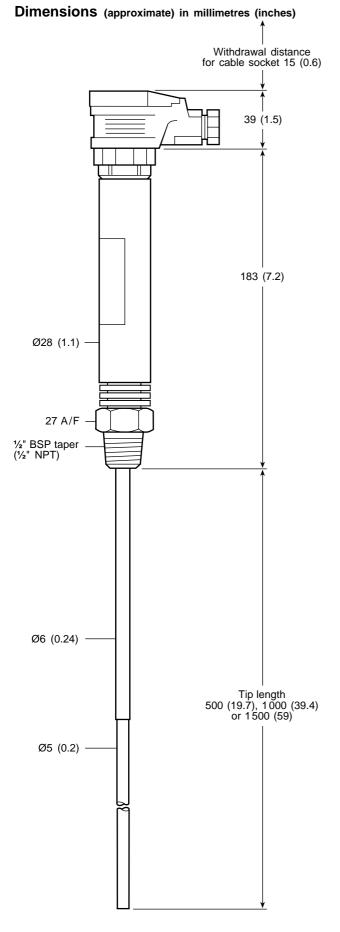
Materials

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No.	Description	Material		
1	Cable socket	Polyamide, glass filled		
2	Flat gasket	Silicone rubber		
3	Probe connector	Polyamide, glas	ss filled	
4	Cover assembly	Austenitic stain	less steel	
5	Name-plate	Polycarbonate		
6	Body	Austenitic stainless steel	BS EN 10088-3 (1.4306)	
7	Probe tip sleeving	PTFE		
8	Probe tip	Austenitic stainless steel	ASTM A276 316L	



Local regulations may restrict the use of this product to below the conditions quoted. In the interests of development and improvement of the product, we reserve the right to change the specification.

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Weights (approximate) in kg (lb)

U	FF	5 (~)	
Tip length	500 mm	1000 mm	1500 mm
Weight	0.51 (1.1)	0.59 (1.3)	0.67 (1.5)

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Important note

All boiler water level and alarm controls require regular testing and inspection. For specific testing instruction for Spirax Sarco systems please see separate literature.

Installation

This document does not contain sufficient information to install the product safely. See the Installation and Maintenance Instructions supplied with the product for full details.

The LP31 tip is cut to length and de-burred prior to installation. Additional environmental protection is needed for installation outdoors.

The probe is installed in a $\frac{1}{2}$ " BSP parallel ($\frac{1}{2}$ " NPT) thread using PTFE tape.

How to specify

High integrity high level alarm probes shall be Spirax Sarco self-monitoring type LP31 with an austenitic stainless steel body and probe tip, PTFE probe sleeving, and DIN 43650 cable socket with Pg 11 cable gland. They shall be cut to length on installation and be used with an appropriate Spirax Sarco controller.

How to order

Example: 1 off Spirax Sarco LP31 probe (BSP) with 1000 mm tip.

