

Level control relays

Level electrodes and electrode holders for conductive liquids. Rod probes

Electrodes and electrode holder



11 SN1



31 SCM...



31 CGL125...



31 PS31



31 PS3S

Order code	Rod probe included	Rod probe length [mm/in]	Qty per pkg n°	Wt [kg]
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Single pole electrodes.

11 SN1	Yes	1000/3.9	10	0.050
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31 SCM 04	Yes	43/1.7	1	0.060
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31 SCM 50	Yes	500/19.7	1	0.115
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31 SCM 100	Yes	1000/39.4	1	0.162
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31 CGL125 3	Yes	327/12.9	1	0.126
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31 CGL125 5	Yes	500/19.7	1	0.158
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31 CGL125 7	Yes	700/27.6	1	0.208
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31 CGL125 10	Yes	1000/39.4	1	0.281
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Three pole electrode.

31 PS31	Yes	300/11.8	1	0.120
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Electrode holder (for 3 rod probes).

31 PS3S	No	—	1	0.184
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● Total electrode length.

General characteristics

SN1 SINGLE POLE ELECTRODE

A single pole electrode used for level control in wells or storage tanks. It comprises an AISI 303 stainless steel probe, a plastic (PPOX) holder and a cable gland. A seal ring and the tightening of the cable gland PG7 prevent water from entering the cable terminal connector and causing its oxidation.

Cable connection: screw.

The external cable diameter must be 2.5 to 6mm/Ø0.1 to 0.24" to warrant perfect sealing.

Maximum connection cable section: 2.5mm²/14 AWG.

Maximum operating temperature: +60°C.

Application: Tanks and deep wells.

SCM ELECTRODE

A single pole electrode used for level control on boilers, autoclaves and in general where pressure (10 bar maximum) and high temperature (+100°C maximum) are present.

It comprises an AISI 303 stainless steel probe embedded in an alumina oxide body and a 3/8" GAS threaded metal support holder.

Cable connection: Threaded rod with nut.

Application: Tanks, pressurised tanks and boilers.

CGL 125... ELECTRODE

A single pole electrode with AISI 302 probe, used for level control on boilers and autoclaves and in general wherever pressure is up to 10 bar maximum.

Maximum operating temperature: +180°C.

3/8" GAS threaded terminal.

Cable connection threaded rod with nut.

Application: Tanks, pressurised tanks and boilers.

PS31 ELECTRODE

A small electrode holder, complete with three AISI 304 stainless steel probes.

Particularly suited to small containers whenever pressure is maximum up to 2 bar.

Maximum operating temperature: +70°C.

1/2" GAS threaded coupling

Faston termination; relative lugs standard supplied

Application: Tanks and automatic dispensers.

PS3S ELECTRODE HOLDER

A thermoset resin electrode holder to be used with three probes (rods probes to be ordered separately) and complete with terminal cover.

Maximum operating temperature is +100°C.

2" GAS threaded coupling.

Cable connection: screw.

Application: tanks.

Reference standards

Compliant with standards: IEC/EN 60255-5.

Rod probes

Order code	Rod probe length [mm/in]	Qty per pkg n°	Wt [kg]
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For SCM electrodes.

31 ASTA 460 MM4	460/18.11	1	0.053
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31 ASTA 960 MM4	960/37.8	1	0.103
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For PS3S electrode holder.

31 ASTA 460 MM6	460/18.11	1	0.100
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31 ASTA 960 MM6	960/37.8	1	0.210
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General characteristics

Stainless steel AISI 304 probes with 4M or 6M threaded extremity suitable as extensions for SCM electrode or as rod probe for PS3S a holder.

See page 19-7 for SCM electrode extension coupler unit.

Accessories



31 S8



31 S11

Order code	Description	Qty per pkg	Wt
		n°	[kg]
31 RE213	Coupler unit for extension rod probe ASTA...MM4	1	0.008
31 S8	8-pin socket for screw fixing or mounting on 35mm DIN rail (IEC/EN 60715), used with LV1E... relay. Screw terminals.	10	0.061
31 S11	11-pin socket for screw fixing or mounting on 35mm DIN rail (IEC/EN 60715), used with LV2E... and CSP2E... relays. Screw terminals.	10	0.064
31 RE014	Relay-socket retention bracket; S8 or S11 types only.	10	0.001
31 L48 P8	8-pin loose socket. Screw terminals.	10	0.040
31 L48 P11	11-pin loose socket. Screw terminals.	10	0.048
31 G216	Flush-mount frame complete with fixing accessories for plug-in relays.	1	0.080

Operational characteristics

SOCKETS

- Tightening torque: 0.8Nm/7.1lbin
- Conductor cross-section max (2 wires): 2.5 mm²/ 14 AWG.