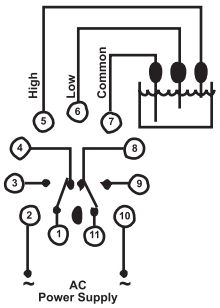
RHOMBERG

# Liquid Level Relay
## (Single or Dual Level)
## 1 C/O or 2 C/O

# SC 130


WIRING EXAMPLE
(requires optional S3-B base)




SLIMLINE

## Application Examples

- Level control of conductive liquids.
- Borehole pump control.
- Filling and draining of tanks and reservoirs.
- Control of sewerage pumps.
- Dosing of liquids chemicals or fertilisers.
- 2-wire remote stop-start control over extended distances.
- Monitoring and controlling of processes in conjunction with Light Dependent Resistors (LDR)

ORDERING CODE

| TYPE | | SUPPLY VOLTAGE | AC/DC | | RELAY CONTACTS |
|---|---|---|---|---|---|
| SC130 | / | 240 | AC | - | D |

Note: DPDT relays can be used as replacements for SPDT

## Technical Specification

**Power Supply:**

AC: 12, 24, 110, 240 (ie. 220-240), 400, 415, 525V ±15%
Isolation (probe input to power supply): 2kV

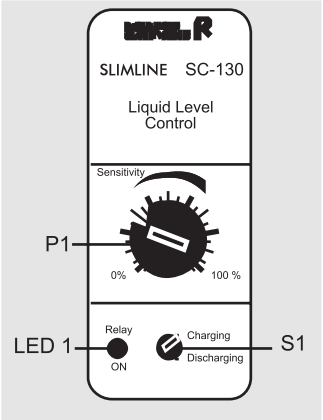
DC: 10-30V, 48, 60, 110V ± 15%
Isolation (probe input to power supply): no galvanic isolation.

**Level Sensing Input:**

| | |
|---|---|
| Sensitivity: | approx. 0 - 50k ohm (adjustable) |
| Probe voltage: | 4VAC |
| Probe frequency: | 100Hz |
| Response time: | 0.5 second |

Maximum recommended cable length between SC130 relay and conductive probe: 300 metres

## Description of Controls




P1: **The Sensitivity** of the liquid sensing input is adjusted on P1. Turning P1 clockwise increases sensitivity.

S1: **The Mode of Operation** is selected on S1. If set to "charging" the unit provides failsafe filling of reservoirs. If set to "discharging" the unit provides failsafe draining of reservoirs.

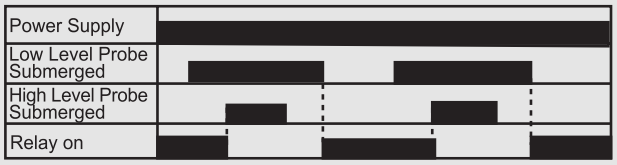
LED 1: The LED marked **"Relay ON"** illuminates when the relay is energised

**Choice of Probes:** Any metal may serve as a probe. However, factors such as corrosion resistance, physical arrangement and the probability of erratic sensing of foam or condensation between probes, should be considered.

For optimum performance and ease of installation, the use of powder epoxy covered 316 stainless steel probes (type CP-3C) is recommended. The length of the probes may be shortened by cutting the probe to the required length or lengthened by using the extension rods (type EP-1C) and distance discs (type DD-3).

## Operational Diagrams

**SC130 controlling charging (filling) of reservoirs**




**SC130 controlling discharging (draining) of reservoirs**