

Level Controller

Model SENLC1 & SENEH14 - Datasheet

Description

The solid-state Electrodes and Level Controller provide a reliable method of detecting fluid levels, which can be used to control the filling or emptying of a cistern. The Electrode Holder can accommodate 2, 3 or 4 electrodes, allowing a single unit to control between two levels and provide a low-level cut-out (this would require 2 controllers). One electrode is normally used for ground enabling the unit to function in GRP cisterns.

The Controller creates a latching characteristic, i.e. "delayed action" for filling or emptying. For example, the cistern only starts filling when the level drops below the longer (P2) electrode and stops filling when the level touches the short electrode (P1).

Conductive electrodes are maintenance free and are more precise than conventional float switches. The 3 mm diameter stainless rods are normally supplied 1 m long and can be cut to length on site. The electrodes are epoxy coated to prevent false signals caused by debris clinging to the electrodes. Low a/c electrode voltage prevents electrolysis. 50 mm should be stripped off the bottom.

The long electrodes are ideal where a type AB air gap is required, since float valves with a drop arm are very unreliable. The unit with a solenoid valve is particularly suitable for commercial feed and expansion tanks.

The Level Controller is protected to IP55 and has a double pole double terminal volt-free output relay rated at 5A resistive. The second pole can be used for an alarm or BMS. Where the load is inductive a contact suppressor is recommended.

The Electrode Holder requires a 28 mm hole in the cistern lid to accept the 3/4" Male BSP thread. The top entry avoids sealing problems associated with side entry switches.

The Controller features an LED indicating the relay is energised. A switch on the circuit board sets a high or low fail-safe condition. Set "high" for cistern filling and low-level alarm.

Specification

Electrode Length	1 m (cut on site to suit)
Fluid Resistance	100 ohm - 20 Kohm
Electrode Voltage	25 V a/c
Supply	230 V 50 Hz
Contacts	DPDT (2 changeover) volt-free
Contact Current	5 A resistive

Materials

Electrodes	316 stainless - Epoxy coated (titanium electrodes optional)
Electrode Holder	Polypropylene

Fluids

Any aqueous or conductive fluid. The Controller features a sensitivity potentiometer to suit a range of fluids. For mains water set to 5.

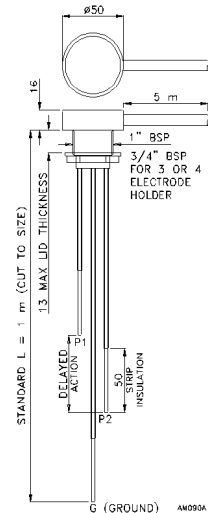
- Water (including softened)
- Sewage
- Alkali & Acids

Applications

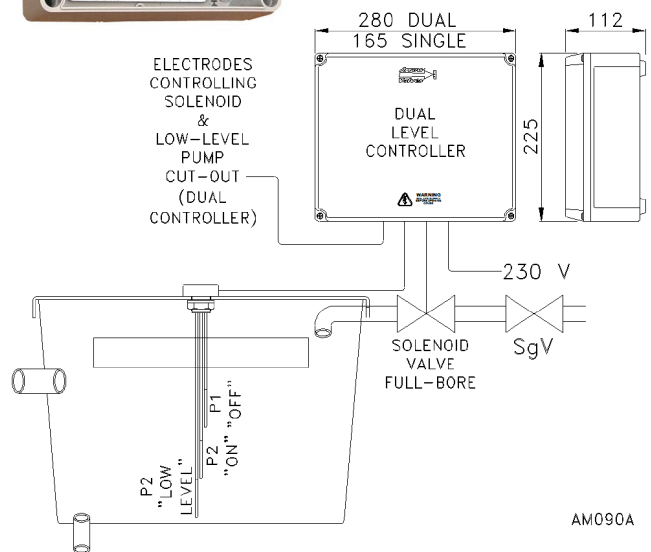
- Filling a cistern via a solenoid valve (DN15 – DN150) – contact us for servo Solenoid Valves
- Emptying a cistern or sump
- Low-level pump cut-out
- High & Low level alarm



Electrode	Cable	Sleeving
P1 (High)	Brown	Brown
P2 (High)	Black	Black
P1 (Low)	Blue	Blue
P2 (Low)	Red	Red
EARTH	Grn/Yell	Grn/Yell



Level Controller (lid removed) acts as junction box – IP65
Single unit dims -



Filling Cistern (e.g. Feed & Expansion) with Type AB gap – controller on "High".

Codes and Descriptions

Code	Description
SENEH14/3*	Electrode Holder 3/4" BSP for Cistern Lid
SENLCAC1	Level Controller DPDP Relay 5A 230V IP55
SENLCAC3	Dual Level Cont. DPDP Relay 5A 230V IP55

* Please specify the number of electrodes required. E.g. 3 or 4.

Contact us for options – 110 V, Brackets etc.

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Arrow Valves Ltd reserve the right to change specifications, design and materials at any time without notice.
All unit-less dimensions in mm.

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