

Latching Water Level Indicator



Key features

- Immediate visual warning for operator safety
- Safe for use in Hazardous areas
- No power requirement

Applications

- Underground Substations
- High Voltage Terminations & trunking
- Wind Farm Substations

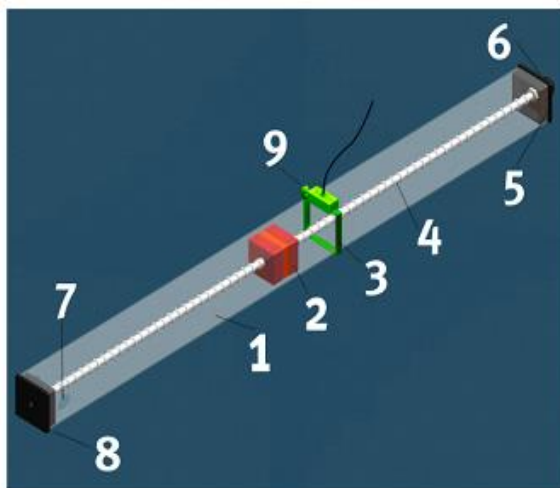
The LST Device provides a simple, robust, and reliable solution where an immediate visual warning is needed of possible hazards caused by flooding. Intended for use in unmanned and subterranean areas where flooding may occur and subsequently recede the indicator provides a clear indication by latching its highly visible float at the highest level recorded. An optional reed switch allows the float to trigger an alarm contact which may be used for remote reporting.

The LST Device provides a simple robust and reliable solution where an immediate visual warning is needed of possible hazards caused by flooding.

Intended for use in areas which are normally unmanned and only visited infrequently. The LST provides a warning that a flood condition has occurred and subsequently passed.

Initially conceived and now successfully applied to protect 1000's of underground high voltage sub-stations the high visibility float will automatically rise with incoming floodwater and then latch at the highest recorded level. The operator is immediately informed of the risk to switching gear and other plant, avoiding a repeat of past accidents where plant has been damaged by operating it whilst contaminated and in worse cases operators have been electrocuted.

One or more electronic sensor module (ESM) may be fitted at any height on the water level indicator. The float has an embedded magnet and in a flood condition will activate a reed switch in the ESM Providing a contact closure which can be used to trigger local or remote alarms. Many unmanned locations now have telemetry monitoring of the plant which will send any used to send any alarms to central offices.



The Sight Tube is simply mounted to a vertical surface using brackets provided.

- 1 – Clear Acrylic tube 60 x 60
- 2 – Float assembly with reset levers
- 3 – Electronic sensor module
- 4 – Ratchet rod – 15mm increments
- 5 – Top end cap - removable
- 6 – Knob for withdrawal
- 7 – Holes for water access
- 8 – lower end cap - fixed
- 9 – Securing screw for ESM

Resetting the float is simple—the entire inner rod assembly is simply withdrawn from the outer tube which remains in place. The purpose designed float has two sprung loaded reset levers which allow it to be slid down to the low level. The rod assembly is then re-inserted and top and bottom locations ensure it is positioned correctly.