

Level-Trac LT-310

Water Detection Control Unit

- Six Discrete Channels
- Six Field Assignable Auxiliary Relays
- Two Independent Power Supply Units
- Probe Cable Fault Monitoring
- No Maintenance or Routine Testing
- Fault Detection



The Level-Trac LT-310 is a remote level indication system, as described in ASME Section I, PG-60. The system may also be used as an alarm or trip device.

The *Level-Trac* Model-LT-310 water detection control unit can be used to drive up to six conductivity/resistance probes installed in a single column or separately. The unit features complete redundant and discrete channels, with two independent power supplies. Channel interaction can be entirely discrete, coincidental, or based on 2 of 3 voting logic.

The LT-310 can be used as a direct replacement to external cage float switches and offers solid state reliability with no moving parts. The Water Detection Unit is designed to be used with Model LT-500, LT-501 or LT-502 probe manifolds, or with single probe fixtures. Suggested applications are:

- Traditional Water Gage Columns at the Boiler Drum
- Cold reheat & Extraction Steam Lines
- Drain, Flash, and Dearator Levels

Enclosure:

NEMA4X/IP65 Wall mounted glass-fiber reinforced polyester
Dimensions: 11.42" H X 9.79" W X 6.56" D (290 mm H X 249 mm W X 167 mm D)
Operating Temperature Rating: -13° F (-25° C) to 158° F (70° C)

Inputs:

Six independent isolated channels
Field selectable three ranges of conductivity
Probe cable monitoring of water or steam normal condition for each channel

Power Supply:

Dual 100-240 VAC \pm 10%, 48 - 63 Hz

Relay Outputs:

Two Alarms, Two Validated Trips, One Fault,
2 out of 3 Probe channel voting circuit
Relay Rating: DPDT, Max. Current: 8 Amps @ 250VAC



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