

Level Measurement

Continuous level measurement – Ultrasonic controllers

SITRANS LU AO

Overview



The SITRANS LU AO Analog Output Module provides remote analog output for the measurement points of the SITRANS LU10 level monitor.

Benefits

- Analog outputs can be up to 1 500 m (5 000 ft) from the SITRANS LU 10
- Analog outputs can be per transducer and/or average of 2 or more

Application

The operation of the SITRANS LU AO is programmed via the SITRANS LU10. The only on-board settings are for bank selection and output testing.

The SITRANS LU AO can provide up to 10 analog outputs (each sharing a common negative bus which is electrically isolated from ground).

Technical specifications

| Mode of operation | |
|--|---|
| Input | |
| Communications | Data from SITRANS LU10 |
| Transmission rate | 4 800 bits/s |
| Voltage | ± 20 mA bipolar current loop |
| Polarization | Non-polarized |
| Max. load | 1 receiving unit |
| Output | |
| Analog outputs | 10 analog outputs, programmable from SITRANS LU10 |
| | 0 or 4 ... 20 mA, isolated |
| ± 20 mA bipolar current loop | Input and transmission |
| • Max. load | 750 Ω |
| • Resolution | 0.1 % |
| Rated operating conditions | |
| Ambient conditions | |
| Ambient temperature for enclosure | -20 ... +50 °C (-5 ... +122 °F) |
| Location | Indoor/outdoor |
| Installation category | II |
| Pollution degree | 4 |
| Design | |
| Weight | 2 kg (4.4 lb) |
| Material (enclosure) | Polycarbonate |
| Degree of protection | Type 4X/NEMA 4X/IP65 |
| Cable connection | 2 copper conductors, twisted, with foil shield/drain wire, 300 V 0.5 ... 0.75 mm ² (22 ... 18 AWG) |
| Electrical connection and relay connection | Copper conductor according to local requirements, rated 250 V 5 A |
| Power supply | 100/115/200/230 V AC ± 15 %, 50/60 Hz, 15 VA |
| Displays and controls | 1 LED for display of voltage/communications state |
| Certificates and approvals | CE, FM, CSA _{US/IC} , C-TICK |

| Selection and Ordering data | Article No. |
|---|----------------------|
| SITRANS LU AO Provides remote analog output for the measurement points of the SITRANS LU10 level monitor. Approvals: CSA _{US/IC} , FM, CE, C-TICK | 7ML5810-1A |
| Operating Instructions | |
| English | 7ML1998-5CE01 |
| German | 7ML1998-5CE31 |
| Note: Operating Instructions should be ordered as a separate line item on the order. | |
| This device is shipped with the Siemens Milltronics manual DVD containing the Quick Start and Operating Instructions library. | |
| Accessories | |
| Sun Shield, 304 stainless steel | 7ML1930-1GA |