

AO895

Freelance hardware selector



The AO895 Analog Output Module has 8 channels. The module includes Intrinsic Safety protection components and a HART interface on each channel for connection to process equipment in hazardous areas without the need for additional external devices.

Each channel can drive up to 20 mA loop current into a field load such as an Ex-certified current-to-pressure converter and is limited to 22 mA in overload conditions. All eight channels are isolated from the ModuleBus and power supply in one group. Power to the output stages is converted from the 24 V on the power supply connections.

Features and benefits

- 8 channels of 4...20 mA outputs.
- HART communication.
- 1 group of 8 channels isolated from ground.
- Power to drive Ex certified I/P actuators.

| General info | |
|----------------------|-----------------------|
| Article number | 3BSC690087R1 |
| Type | Analog Output |
| Signal specification | 4...20 mA |
| Number of channels | 8 |
| Signal type | Unipolar single ended |
| HART | Yes |
| SOE | No |
| Redundancy | No |
| High integrity | No |
| Intrinsic safety | Yes |
| Mechanics | S800 |

| Detailed data | |
|------------------------------------|---|
| Resolution | 12 bit |
| Isolation | Groupwise isolated from ground |
| Under/over range | 2.5 / 22.4mA |
| Output load | <725 ohms at 20 mA, no over-range <625 ohms at up to 22 mA |
| Error | Typ. 0.05%, Max. 0.1% at 650 ohms |
| Temperature drift | Typ. 50 ppm/°C, Max. 100 ppm/°C |
| Rise Time | 30 ms (10% to 90%) |
| Current limiting | Short circuit proof current limited output |
| Rated insulation voltage | 50 V |
| Dielectric test voltage | 500 V a.c. |
| Power dissipation | 4.25 W |
| Current consumption +5 V Modulebus | Typ. 130 mA |
| Current consumption +24 V external | Typ. 250 mA, Max. <330 mA |

| Diagnostics | |
|--------------------|---|
| Front LED's | F(ault), R(un), W(arning), O(SP), Tx (HART communication) |
| Supervision | Internal process supply, Open wire if > 1 mA is set |

| Environment and certification | |
|--------------------------------------|--|
| CE mark | Yes |
| Electrical safety | EN 61010-1, EN 61010-2-201 |
| Hazardous Location | ATEX/IECEx Zone 2 with interface to Zone 0, cFMus C1, Div 2/Zone 2 with interface to C1, C2, C3 Div 1/Zone 0 |
| Marine certification | - |
| Temperature, Operating | 0 to +55 °C (+32 to +131 °F) |
| Temperature, Storage | -40 to +70 °C (-40 to +158 °F) |
| Pollution degree | Degree 2, IEC 60664-1 |
| Corrosion protection | ISA-S71.04: G3 |
| Relative humidity | 5 to 95 %, non-condensing |
| Max ambient temperature | 55 °C (131 °F), for vertical mounting in compact MTU 40 °C (104 °F) |
| Protection class | IP20 according to IEC 60529 |
| Mechanical operating conditions | IEC/EN 61131-2 |
| EMC | EN 61000-6-4 and EN 61000-6-2 |
| Overvoltage categories | IEC/EN 60664-1, EN 50178 |
| Equipment class | Class I according to IEC 61140; (earth protected) |
| RoHS compliance | DIRECTIVE/2011/65/EU (EN 50581:2012) |
| WEEE compliance | DIRECTIVE/2012/19/EU |

| Compatibility | |
|----------------------|-------------------------|
| Use with MTU | TU890, TU891 and TU891Z |
| Keying code | AF |

| Dimensions | |
|-------------------|--|
| Width | 45 mm (1.77") |
| Depth | 102 mm (4.01"), 111 mm (4.37") including connector |
| Height | 119 mm (4.7") |
| Weight | 0.2 kg (0.44 lbs.) |

Related products



TU890



TU891

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