

DATA SHEET

AO801 Compact Product Suite hardware selector



The AO801 Analog Output Module has 8 unipolar analog output channels. The module performs selfdiagnostic cyclically. A low internal power supply sets the module in INIT state (no signal from the module).

Features and benefits

- 8 channels of 0...20 mA, 4...20 mA outputs
- OSP sets outputs to predetermined state upon error detection
- Analog Output is to be short circuit secured to ZP or +24 V
- Process and power connection via detachable connectors

| General info | |
|----------------------|-----------------------|
| Article number | 3BSE020514R1 |
| Туре | Analog Output |
| Signal specification | 0 20 mA, 420 mA |
| Number of channels | 8 |
| Signal type | Unipolar single ended |
| HART | No |
| SOE | No |
| Redundancy | No |
| High integrity | No |
| Intrinsic safety | No |
| Mechanics | \$800L |

| Detailed data | | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Resolution | 12 bit | |
| Isolation | Groupwise isolated from ground | |
| Under/over range | - / +15% | |
| Output load | Max 850 Ω | |
| Error | 0,1 % | |
| Temperature drift | Typ 30 ppm/°C, Max 50 ppm/°C | |
| Rise Time | 10 µs | |
| Update cycle time | 1 ms | |
| Current limiting | Short circuit proof current limited output | |
| Maximum field cable length | 600 meters (656 yards) | |
| Rated insulation voltage | 50 V | |
| Dielectric test voltage | 500 V a.c. | |
| Power dissipation | 3.8 W | |
| Current consumption +5 V Modulebus | 70 mA | |
| Current consumption +24 V Modulebus | - | |
| Current consumption +24 V external | 200 mA | |
| Supported wire size | Solid: 0.05-2.5 mm², 30-12 AWG Stranded: 0.05-1.5 mm², 30-12 AWG Recommended torque: 0.5-0.6 Nm Stripping length 6-7.5mm, 0.24-0.30 inch | |

| Diagnostics | | |
|----------------------------------|---------------------------------------------|--|
| Front LED's | S(tatus) (run or fault) | |
| Status indication of supervision | Module Error, Module Warning, Channel error | |

| Environment and certification | | |
|---------------------------------|---------------------------------------------------------------------|--|
| CE mark | Yes | |
| Electrical safety | EN 61010-1, UL 61010-1, EN 61010-2-201, UL 61010-2-201 | |
| Hazardous Location | C1 Div 2 cULus, C1 Zone 2 cULus, ATEX Zone 2 | |
| Marine certification | ABS, BV, DNV, LR | |
| Temperature, Operating | 0 to +55 °C (+32 to +131 °F), approvals are issued for +5 to +55 °C | |
| 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 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 | |

| Dimensions | | |
|------------|---------------------|--|
| Width | 86.1 mm (3.4") | |
| Depth | 58.5 mm (2.3") | |
| Height | 110 mm (4.33") | |
| Weight | 0.24 kg (0.53 lbs.) | |



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