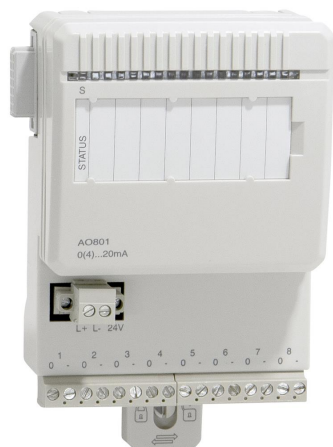


# AO801

## System 800xA 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	
Type	Analog Output
Signal specification	0... 20 mA, 4...20 mA
Article number	3BSE020514R1
Number of channels	8
Signal type	Unipolar single ended
HART	No
SOE	No
Redundancy	No
High integrity	No
Intrinsic safety	No
Mechanics	S800L

<b>Detailed data</b>	
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 +24V Modulebus	-
Current consumption +24V external	200 mA
Supported wire size	Solid: 0.05-2.5 mm <sup>2</sup> , 30-12 AWG Stranded: 0.05-1.5 mm <sup>2</sup> , 30-12 AWG Recommended torque: 0.5-0.6 Nm Stripping length 6-7.5mm, 0.24-0.30 inch

<b>Diagnostics</b>	
Front LED's	S(status) (run or fault)
Status indication of supervision	Module Error, Module Warning, Channel error

<b>Environment and certification</b>	
CE mark	Yes
Electrical safety	IEC 61131-2, UL 508
Hazardous Location	C1 Div 2 cULus, C1 Zone 2 cULus, ATEX Zone 2
Marine certification	ABS, BV, DNV-GL, LR, RS, CCS
Protection rating	IP20 according to IEC60529
Corrosive atmosphere ISA-S71.04	G3
Climatic operating conditions	0 to +55 °C (Storage -40 to +70 °C), RH=5 to 95 % no condensation, IEC/EN 61131-2
Pollution degree	Degree 2, IEC 60664-1
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)
Max ambient temperature	55 °C (131 °F), for vertical mounting 40 °C (104 °F)
RoHS compliance	EN 50581:2012
WEEE compliance	DIRECTIVE/2012/19/EU

## Compability

## Intrinsic Safety parameters

<b>Dimensions</b>	
Height	110 mm (4.33")
Width	86.1 mm (3.4")
Depth	58.5 mm (2.3")
Weight	0.24 kg (0.53 lbs.)



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