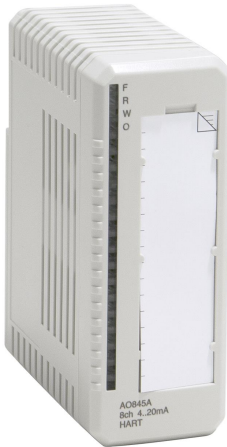


AO845A

System 800xA hardware selector



The AO845/AO845A Analog Output Module for single or redundant applications has 8 unipolar analog output channels. The module performs self-diagnostic cyclically. Module diagnostics include:

- External Channel Error is reported (only reported on active channels) if the process power supply that supply voltage to output circuitry is too low, or the output current is less than the output set value and the output set value > 1 mA (open circuit).
- Internal Channel Error is reported if the output circuit can not give the right current value. In a redundant pair the module will be commanded to error state by the ModuleBus master.
- Module Error is reported in case of Output Transistor Error, Short Circuit, Checksum Error, Internal Power Supply Error, Status Link Error, Watchdog or Wrong OSP behavior.

Features and benefits

- 8 channels of 4...20 mA
- For single or redundant applications
- 1 group of 8 channels isolated from ground
- Analog inputs are short circuit secured to ZP or +24 V
- HART pass-through communication

General info	
Type	Analog Output
Signal specification	4...20mA
Article number	3BSE045584R1
Number of channels	8
HART	Yes
SOE	No
Redundancy	Yes
High integrity	No
Intrinsic safety	No
Mechanics	S800

Detailed data	
Resolution	12 bit
Isolation	Groupwise isolated from ground
Under/over range	±15%
Output load	Max 750 Ω
Error	Max. 0.1%
Temperature drift	Max. 50 ppm/°C
Rise Time	Output filter: Disable 23 ms, Enable max 4 mA / 12.5 ms
Input filter (rise time 0-90%)	23 ms (0-90%), max 4 mA / 12.5 ms
Update cycle time	10 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	Typ. 3.5 W
Current consumption +5 V Modulebus	Max. 125 mA
Current consumption +24 V external	218 mA

Diagnostics	
Front LED's	F(ault), R(un), W(arning), O(SP)
Status indication of supervision	Module Error, Module Warning, Channel error

Environment and certification	
CE mark	Yes
Electrical safety	IEC 61131-2, UL 508
Hazardous Location	C1 Div2 cULus, C1 Zone2 cULus, ATEX Zone 2
Marine certification	BV, DNV-GL, LR
Protection rating	IP20 according to IEC 60529
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 in compact MTU 40 °C (104 °F)
RoHS compliance	EN 50581:2012
WEEE compliance	DIRECTIVE/2012/19/EU

Compatibility	
Use with MTU	TU810, TU812, TU814, TU830, TU833, TU842, TU843 or TU852
Keying code	DB

Intrinsic Safety parameters

Dimensions	
Height	119 mm (4.7")
Width	45 mm (1.77")
Depth	102 mm (4.01"), 111 mm (4.37") including connector
Weight	0.21 kg (0.46 lbs.)

Related products



TU814V1



TU810V1



TU852



TU833



TU812V1



TU843



TU830V1



TU842

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