

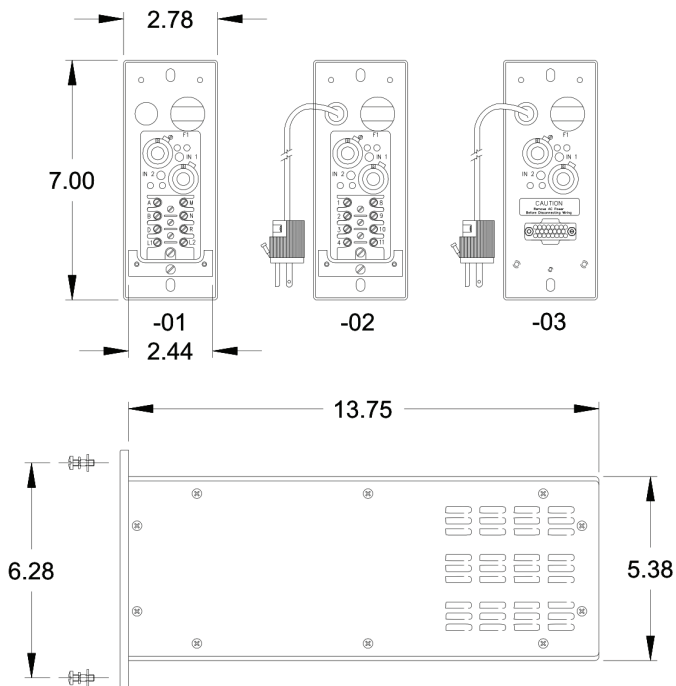
SAM503/DAM503

The SAM503/DAM503 Single/Dual Alarm Module replaces the obsolete FoxboroH line bi-stable instrument, as a solid-state unit that produces avoltage or contact closure when one input or two inputs exceed preset limits.

All input, output, and logic options are available with the SAM503/DAM503. Input polarities and difference functions are completely configurable. Changes are made by moving internal jumpers.



DAM503-03



- “-01” = Terminal Block
- “-02” = Terminal Block w/ Power Cord
- “-03” = M 20 Connector w/ Power Cord

Possible Input Modes

- Dual (each input feeds an independent output)
- Single (one input feeds both outputs)
- Difference (input A less input B feeds both outputs)
- Deviation (output A = input A less input B, output B = input B less input A)

Possible input ranges

- 0 to 20 mA (or 4 to 20 mA) into 249.9 Ω
- 0 to 50 mA (or 10 to 50 mA) into 100 Ω
- 0 to 5 V (or 1 to 5 V) into 500 k Ω
- 0 to 10 V (or 2 to 10 V) into > 166 k Ω

Possible trip modes:

- Trip on rising signal
- Trip on falling signal

Possible output logic:

- Solid State NO
- Solid State NC

Possible output ranges:

- Internal 120 Vac @ 2.5 A max., 300 VA max. per channel (supply voltage)
- Internal 168 Vdc, @ 1 A max., 300 VA max. per channel (unregulated, unfiltered, no load bridge-rectified supply voltage)
- Dry contacts, ac or dc, 400 V peak, 3 A continuous max. per channel, 0 to 1 MHz

NUSI 500 Series

Single/Dual Alarm Module

SPECIFICATIONS

Power Supply Voltage:	5 W (nominal), 10 VA (maximum) [not including internally supplied wetting voltages]
Fuses:	F1: 1 to 8 A, 250 Vac type 3AG (Indicating type is standard)
	F2: 7 A, 250 Vac, PC board mount
	F3 (and F4): 3 A internal, fast acting type GBB, in-line with each output
Time Response:	Less than 5 ms from application of a step change at the input to a change in the output (resistive load) of 63% of the final value for solid state outputs (filters bypassed or not in the circuit)
Accuracy:	Repeatable to 0.5% of input span with 2% dial setting accuracy for the trip point
	Reset point repeatable to 0.5% of input span
Sensitivity:	Better than ± 5 mV at the input
Set Point Range:	0% to 100% of input range, dial calibrated in percent
Deadband:	0.5% to 25% of input range (20 mV minimum deadband required), 20 turn (minimum) recessed pot accessible from front panel
Dielectric Withstand:	1000 Vdc and 1000 Vac (RMS) common mode rejection for input to output
	1000 Vdc and 750 Vac (RMS) for output to ground
Surge Withstand:	No damage when the waveform of IEEE-472-1974 is applied to any port
Electrical Qualification:	Plant protection, qualified to IEEE 323-1974/1983 and IEEE 344-1975/1987
Ambient Temperature:	35 °F to 122 °F (2 °C to 50 °C) (normal operation)
	122 °F to 135 °F (50 °C to 57 °C) (abnormal operation for 200 hours)
	-40 °F to 185 °F (-40 °C to 85 °C) (storage)
Temperature Effects:	Less than 0.04 % of input full scale change in set and reset points for each
	1 °C change in ambient temperature (less than 0.33% per 15 °F change)
Relative Humidity:	0% RH to 95% RH, non-condensing (operating)
	0% RH to 99% RH, non-condensing (storage)
Pressure:	Atmospheric
Radiation Limits:	10 ⁴ rad TID gamma

HOW TO ORDER

The model number and configuration typically should be specified as follows:

SAM503-01, DAM503-01

SAM503-02, DAM503-02

SAM503-03, DAM503-03

CONTACT INFORMATION:

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