

SUM2000-752 Four-Input Summer

The SUM2000-752 Four-Input Summer replaces the obsolete Bailey Type 752 summer while retaining the functions of the Bailey module.

The SUM2000-752 accepts input signals and adds or subtracts those signals from each other to obtain an output signal of 1 V to 5 Vdc that is proportional to the sum or difference of the input signals. The SUM2000-752 is available with either two, three, or four inputs.

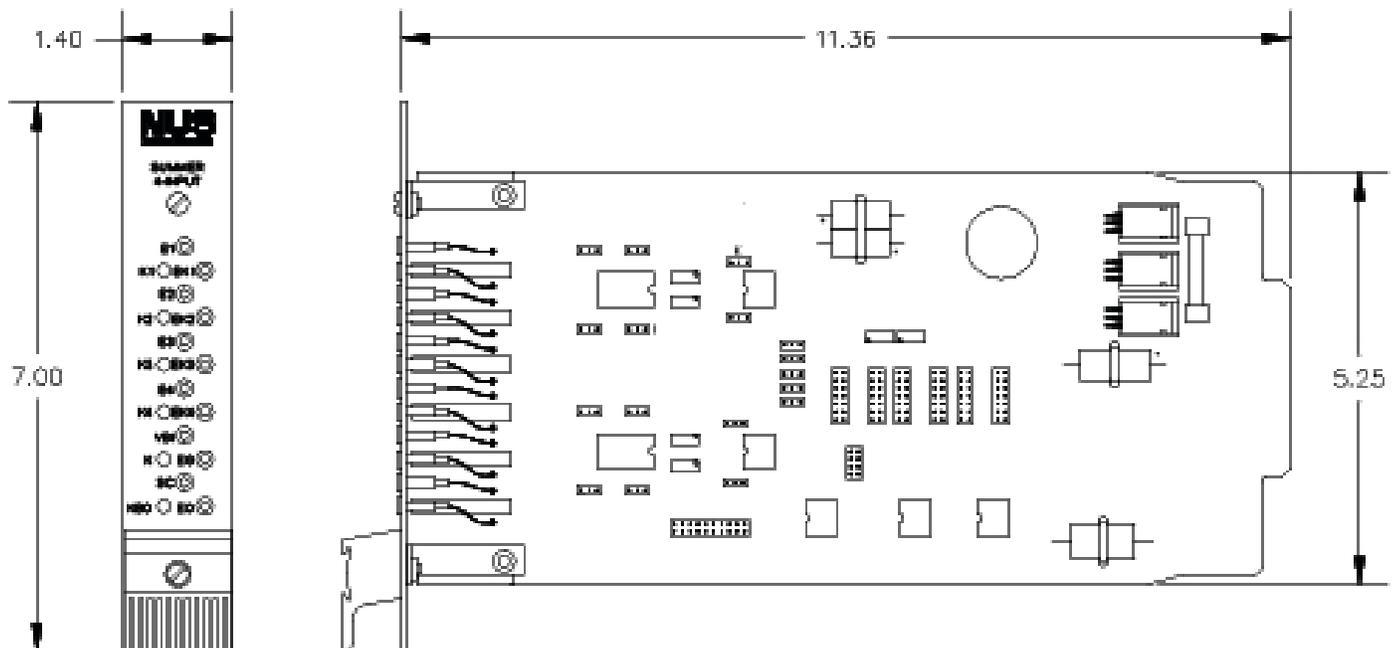
The SUM2000-752 summation circuitry can perform the following functions:

- Add or subtract a common bias voltage to or from the applied input signals.
- Scale each individual input signal, (0 to 1), to put the input variables into identical units for addition or subtraction.
- Multiply the net result by an adjustable constant, (0.25 to 10).
- Add or subtract an output bias voltage.

The SUM2000-752 provides improved accuracy and drift specifications, and jumper-selectable level "auctioning" at all inputs. Front panel test jacks are provided for: input voltages before and after scaling; input bias voltage; fine gain voltage; signal output; and common voltage. Adjustments for scaling of each input, fine gain, and output bias are accessible through the face plate.



SUM2000-752



NUSI 2000 Series

Four-Input Summer

SPECIFICATIONS

Input Signal:	1 V to 5 Vdc normal; ± 10 Vdc maximum
Number of Inputs:	Two, three, or four
Input "Auctioning":	Input "auctioning" selectable for each input by individual jumpers "Auctioning" level adjustable from 0 V to + 3 Vdc, (nominal)
Input Resistance:	"Auctioning" disabled: Exceeds 1 M Ω "Auctioning" enabled: Exceeds 1 M Ω when input level > "auctioning" level Not less than 6 k Ω for input level < "auctioning" level
Output Signals:	1 V to 5 Vdc normal; ± 10 Vdc maximum
Allowable Load:	1.5 k Ω minimum
Accuracy (at 24 Vdc input, 80 °F):	0.5% or better for all gains
Dynamic Response:	3 db down at 24 Hz (nominal), phase angle < 80°
Adjustments:	Gain: 0.25 to 10 Input Bias: 0 V to ± 5 Vdc Output Bias: 0 V to ± 5 Vdc Residual Bias: 0 V to ± 5 Vdc Scaling: 0 to 1.0 (each input) "Auctioning" levels: 0 V to 3 Vdc, (nominal)
Power Supply Voltage:	0.15 A @ 24 V ± 2 Vdc (22 V to 28 Vdc operative limits)
Operating Influence:	Supply Voltage: 24 V ± 2 Vdc ($\pm 0.1\%$)
Ambient Temperature:	40 °F to 120 °F (5 °C to 49 °C) (normal operation) 20 °F to 140 °F (-7 °C to 60 °C) (operative limits) -70 °F to 180 °F (-57 °C to 82 °C) (storage)
Dimensions:	1.4 in x 7 in x 11.5 in
Weight:	Rack-mounted: < 1 lb
Mounting:	Bailey Type 761 Rack Unit
Legend:	Legend plate holder is integral with the withdrawal handle

For more information please request a
Summer Module Operation & Maintenance Manual.

CONTACT INFORMATION:

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