



SC-MATHSCON



The SC-MATHSCON Isolating Signal Converter can be user-configured to carry out a wide range of mathematical functions on two isolated input channels. One input is a universal current, voltage, thermocouple or RTD input, and the other can be either voltage or current. Each channel can be multiplied by a factor or linearised and then any of the following functions can be performed on those input channels.

Output = A + B
Output = A - B
Output = A x B
Output = A / B
Output = (A-B)
ignals
ı isolated, scaleable
utput corresponding to
uired function.
quirement is 16 to 32V

Installation Data

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Mounting	DIN Rail TS35
Orientation	Any
Connections	Screw Clamp with pressure plate
Conductor Size	0.5-4.0mm
Insulation Stripping	12mm
Weight	Approx 95g
Max Terminal Torque	0.4Nm
Ordering Information	n

Made in the UK

Part No.: SC-MATHSCON

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IS09001certified

cynergy3-sc-mathscon-v2

Programmable Mathematics Unit

- User Configurable Maths Function
- Two Isolated Inputs and One Isolated Output
- 3-Port Isolation to 1000Vdc
- High Accuracy, Low Cost
- Ultra Compact, only 17.5mm Wide
- 1 Universal & 1 Voltage/Current Input

General Specifications

The inputs types and ranges included below are our standard ones. Please contact our sales department for details on any application not specified below.

DC Current

0-20mA, 4-20mA, 0-10mA all into 10и

DC Voltage

0-1V, 0-10V, 1-5V all into 1Ми

RTD, Thermocouple and Potentiometer Inputs available on Input 1 only

Outputs

DC Current (Source or Sink) and Voltage

0-20mA, 4-20mA, 0-10mA into 750и maximum.

0-1V, 0-10V, 1-5V into a minimum 100kи

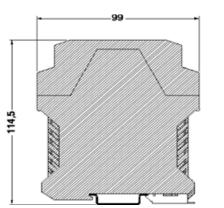
Technical Specifications Parameter Max **Comments** Min Тур 16V 24V 36V Supply Voltage 95 134 Supply Current (mA) Max with transmitter supply Input Impedance (Volt) 1Ми Input impedance (mA) 15и Volt Drop (mA Input) 0.3V At 20mA input **Overall Accuracy** ±0.01% ±0.05% Input Accuracy ±0.01% **Temp Coefficient** ±50ppm/°C Load Resistance Error ±5ppm/и $0 < RL < 750_{\mu}$ Time Constant (10-90%) 100mS 180mS See note **Operating Ambient** 0°C 55°C **Relative Humidity** 0% 90% Isolation Voltage 1kV Surge Voltage 2.5kV for 50µS Transient of 10kV/µS Notes

Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur. Device is protected against reverse polarity connection.

17.5

Accuracy figures based on an ambient temperature of 20°C.

The Time Constant is dependent on which processing options are been selected.



	Connection Details
	Connection Details
	 Power Input -ve
"	Power Input +ve
	12. Input 2 (mA, V)+ve
1	10. Input 2 -ve
8	3. Tx supply +ve RTD 4 th wire
4	6. RTD 3 rd wire
8	5. Input 1 (ma, V, T?C, RTD) +ve
5463	4. Input 1 -ve
3	7. Output -ve
8	9. Output (mA, V) +ve
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