



SC2002ALM-HL



The SC2002ALM-HL trip amplifier can accept a wide range of user configurable inputs including 4-20mA, 0-20mA, 0-5V and 0-10V. The unit can have up to two relay outputs and each can operate as a high or a low trip: alternatively latching operation using both trip points can be configured.

The relay outputs are single pole changeover relays with mains voltage rating. Each trip can be configured so that the alarm condition can be above or below setpoint. The relays can be energised or de-energised in the alarm condition, satisfying fail-safe and non-fail-safe applications. In addition the alarm LEDs can be selected to light when the relay is either on or off. All these options are user-configurable using internal DIP switches. This minimises the number of spare units required.

The input stage is fully isolated and the high level input current or voltage and range may be configured. Separate products are available for thermocouple and RTD inputs.

Installation Data DIN Rail TS35 Mounting Orientation Anv Connections Screw Clamp with pressure plate **Conductor Size** 0.5-4.0mm Insulation Stripping 12mm Weight Approx 120g **Ordering Information** Part No.: SC2002ALM-HL Cynergy3 Components Ltd. 14.5 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE, UK

Made in the UK

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IS09001certified

cynergy3-sc-2002almhl-v2

Dual Trip Amplifier

- Wide Range of User Configurable Inputs
- 2 Setpoints with Configurable Trip Action & Fail-safe mode
- Isolated Input Stage
- Setpoints Available as 0-10V, (0-100%) on terminals 9 & 12
- D.C or A.C. Power Supply Options, See 4002-ALM for Mains Version

Inputs

Notes

SC2002ALM-HL Standard Ranges

Outputs

Mains Rated Relays - 3A resistive at 240V ac

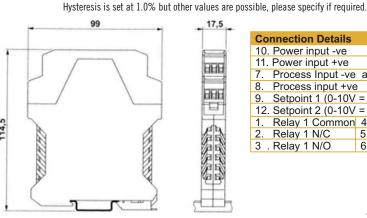
0-20mA, 4-20mA, 0-10mA into 12n/15n/24n 0-5V. 0-10V into 1M_M Min and Max Full Scale Ranges available to order: DC Current 0 to 1mA 0 to 5A DC Voltage 0 to 100mV 0 to 300V Note: For input voltages greater than 60Vdc a Divider unit must be specified.

Technical Specification	ns			
Parameter	Min	Тур	Max	Comments
Supply Voltage		24V		
Supply Current (mA)			45	24Vdc supply, both relays energised
Volt Drop (mA input)		0.3	0.35	At 20mA Input
Input Impedance (Volt)	100kи	1Ми	10Mи	Dependant on range (typ=10V)
Input Impedance (mA)	0.02и	15и	5kи	Dependant on range (typ=4-20mA)
Trip Point Accuracy			0.25%	
Trip Point Drift			±100ppm/°C	
Temp Coefficient			±100ppm/°C	
Hysteresis		1% span		
Time Constant (10-90%	5)	10ms		
Operating Ambient	0°C		55°C	
Relative Humidity	0%		90%	
Isolation Voltage see note	1kV			
Surge Voltage	2.5kV f	or 50µS	Transient o	of 10kV/µS

Setpoints can be checked by measuring the 0-10V (0-100%) voltage on terminals 9 &12

H/H,H/L, L/H, LL, fail-safe, non-fail safe and LED options are user selectable using internal links.

Setpoints are adjusted by 20 turn potentiometers on the front panel.



Connection Details					
10. Power input -ve					
11. Power input +ve					
7. Process Input -ve	and Setpoint common				
Process input +ve					
9. Setpoint 1 (0-10V	Setpoint 1 (0-10V = 0-100%)				
12. Setpoint 2 (0-10V = 0-100%)					
1. Relay 1 Common	4. Relay 2 Common				
2. Relay 1 N/C	5. Relay 2 N/C				
3 . Relay 1 N/O	6. Relay 2 N/O				

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