

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 Weight Approx 120g

Ordering Information Part No.: SC2002ALM-HL

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ISO9001 CERTIFIED

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

SC2002ALM-HL Standard Ranges

0-20mA, 4-20mA, 0-10mA into 12u/15u/24u 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.

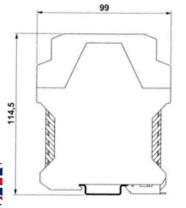
Mains Rated Relays - 3A resistive at 240V ac

lechnical Specifications						
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	10Ми	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%) 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		

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

17,5

Hysteresis is set at 1.0% but other values are possible, please specify if required.



	Connection Details					
0-0	10. Power input -ve					
000	11. Power input +ve					
CHIC	Process Input -ve	and Setpoint common				
	8. Process input +ve)				
EEE	9. 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				
 后副	3 Relay 1 N/O	6. Relay 2 N/O				
(20 E)						
ZE 50						

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