imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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SC4002ALM-6 Universal Input Dual Setpoint Trip Amplifier





The SC4002ALM-6 trip-amplifier can accept a wide range of inputs including 4-20mA, thermocouple, RTD and voltage types. The unit can have up to two relay outputs and each can operate as a high or low trip. The unit also produces an isolated high level output.

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 the setpoint. The relays can be energised or deenergised in the alarm condition, satisfying fail-safe and non-fail safe applications. In addition the alarm LED's can be selected to light when the relay is either on or off.

The input stage is isolated from the output and power supply and the inputs can be user-reconfigured for several different ranges if specified at point of order. In addition there is an optional isolated transmitter supply of 24Vdc, suitable for exciting most standard transmitters.

In addition numerous functions can be selected using the built-in menus including latching functions, delay on or delay off and an alarm delay on power up.

If you require any other special function please contact us on the number below. The power supply is a wide ranging 16-30Vdc supply

Installation Data

Mounting	DIN Rail TS35				
Orientation	Any				
Connections Screw C	s Screw Clamp with pressure plate				
Conductor Size	0.5-4.0mm				
Insulation Stripping	12mm				
Weight	Approx 140g				
Ordering Information	l				
Part No.: SC4002ALM-	-6				

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IS09001certified

SC4002ALM-6 2017

- Wide Range of User Configurable Inputs
- Configurable Trip Action and Fail-safe Mode
- Isolated Re-Transmission
- Isolated Input Stage and Isolated Transmitter Supply

Outputs

Mains Rated Relays 3A resistive at 240V ac

DC Current and Voltage

0-20mA, 4-20mA, 0-10mA into 750 Ω

0-1V, 0-10V, 1-5V into a minimum $2k\Omega$

LED display of Input, Setpoints and Configuration

Inputs DC Current and Voltage

0-20mA, 4-20mA, 0-10mA into 15Ω / 30Ω

0-1V, 0-10V, 1-5V into 100k**Ω** / 1M**Ω** Min and Max Full Scale Ranges: 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.

Thermocouples

Notes

Types E,J,K,N,R,S,T & B linearised or non-linearised Ranges Wide range of inputs Auto cold junction compensation. Upscale or downscale t/c burnout options.

Resistance Thermometers

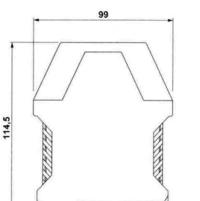
2, 3 or 4 wire PT100 or PT1000, linearised (or not) Ranges Wide range of inputs (Up or downscale b/o)

Technical Specification	ns			
Parameter	Min	Тур	Max	Comments
Supply Voltage	16V	24V	30V	
Supply Current (mA)	24		110	24Vdc supply, max if both relays energised
Volt Drop (mA input)		3V		At 20mA Input on 0-20mA range
Input Impedance (Volt)		1Ma		
Input Impedance (mA)		15Ω		
Temp Coefficient			±100ppm/°C	
Relay Response Time		10ms		
Operating Ambient	0°C		55°C	
Relative Humidity	0%		90%	
Isolation Voltage see note	1kV			
Surge Voltage	2.5kV for	50µS	Transient o	of 10kV/µS

Setpoints are configured on the LED display on the front panel. H/H,H/L, L/H, LL, fail-safe, non-fail safe and hysteresis options are set using the display. Figures based on 24Vdc supply @ 20°C ambient

22,5

8888 8888 8888



Term.	Connection					
3	Tx Supply +ve, RTD 4 th Wire					
5	Input mA, V, T/C, RTD +ve					
4	Input mA, V, T/C, RTD -ve					
6	RTD 3 rd Wire					
10	Output -ve	18	Relay 1 N/C			
12	Output +ve	19	Relay 1 N/O			
		20	Relay 1 Common			
1	Power Input –ve	15	Relay 2 N/C			
2	Power Input +ve	16	Relay 2 N/O			
		17	Relay 2 Common			



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