



The CAL product range also includes:-

Temperature Controllers

A low-cost range of temperature controllers with added options for RS232 & RS485 communications. All controllers have P.I.D. control, autotune, heat-cool strategy. Product options are available for single or multi ramp-soak profile.

Process Controllers

Versatile programmable controllers for process control applications. Designed to offer the highest functionality in a 48mm x 48mm (1/16th DIN) package. This combination of programmable ramp/soak profiles, process control inputs and 3 outputs, together with RS232 or RS485 comms makes the CAL range of controllers a unique and affordable package.

Process Monitoring and Configuration

Easy to use software packages that provide charting, logging and configuration solutions for networks of up to 128 controllers.

Temperature Sensors

A wide range of thermocouples and RTDs for all applications.

Also included is a range of accessories from cables, connectors, glands to thermowells.

Specifications are subject to change without notice, as a result of continual development and improvement.

Your nearest CAL contact;



CAL Controls Ltd
Bury Mead Road, Hitchin, Herts, SG5 1RT. UK
Tel: + 44 (0)1462-436161 Fax: + 44 (0)1462-451801
email: sales@cal-controls.co.uk
http://www.cal-controls.com

CAL Controls Inc
1117 S. Milwaukee Avenue, Libertyville, IL 60048. USA
Tel: (847) 680-7080 Fax: (847) 816-6852
email: sales@cal-controls.com
http://www.cal-controls.com

a VIDA GROUP company

The CAL range of Solid State Relays



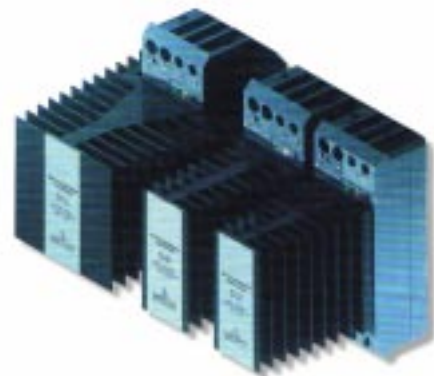
The CAL Controls range of solid state relays

As a manufacturer of temperature and process controllers CAL wishes to offer the very best service. By matching a high-quality, low cost range of solid state relays to its range of controllers, CAL now offers you a complete solution from sensor to relay, reducing your supply base and lowering your purchasing costs. The range of solid state relays with integral heatsink are a slimline single and two pole product that are designed to simplify installation whilst maintaining back panel space. The chassis mount solid state relay range provide a lower cost alternative, available in higher current ratings when used with appropriate heat sinks.



Solid state relays with integral heatsink

- Suitable for resistive, capacitive and inductive loads
- Rated load current up to 63A
- Load voltage to 480v
- Transient overload protection
- Zero switching to reduce load thermal shock
- Control input LED indication
- IP20 protection
- DIN rail and surface/chassis mounting



PART NUMBER	RATED LOAD CURRENT (30°C)	LOAD VOLTAGE (V)	CONTROL VOLTAGE	NUMBER OF POLES
RN1A23D20E	20A	42 – 265V AC	5 to 32V DC	1
RN1A48D20E	20A	42 – 530V AC	5 to 32V DC	1
RN1A23D30	30A	42 – 265V AC	5 to 32V DC	1
RN1A48D30	30A	42 – 530V AC	5 to 32V DC	1
RN1A23D50	50A	42 – 265V AC	5 to 32V DC	1
RN1A48D50	50A	42 – 530V AC	5 to 32V DC	1
RN1A23D63	63A	42 – 265V AC	5 to 32V DC	1
RN1A48D63	63A	42 – 530V AC	5 to 32V DC	1
RN2A48D30	30A	42 – 530V AC	5 to 32V DC	2
RN2A48D50	50A	42 – 530V AC	5 to 32V DC	2

Dimensions and weights



RN 20A		
H	W	D
100mm	22.5mm	103mm
Weight		220g
Control and power terminals		4mm ²



RN 30-63Amp			
	H	W	D
RN1	124mm	45mm	109mm
RN2	124mm	89mm	109mm
Weight	RN1	470g	
	RN2	780g	
Control terminals			4mm ²
Power terminals			10mm ²



Chassis mount solid state relays

- Suitable for resistive, capacitive and inductive loads
- Rated load current up to 75A*
- Load voltage up to 480v
- Zero switching to reduce load thermal shock
- Built in varistor on thyristor models
- Control input LED indication
- IP20 protection with clip on cover
- Surface/chassis mounting*

Triac/alternistor switching (resistive loads only)

PART NUMBER	RATED LOAD CURRENT (25°C)	LOAD VOLTAGE (V)	CONTROL VOLTAGE
RS1A23D10	10A	42 – 265V AC	5 to 32V DC
RS1A48D10	10A	42 – 530V AC	5 to 32V DC
RS1A23D25	25A	42 – 265V AC	5 to 32V DC
RS1A48D25	25A	42 – 530V AC	5 to 32V DC
RS1A23D40	40A	42 – 265V AC	5 to 32V DC

Thyristor switching (resistive, capacitive or inductive loads)

PART NUMBER	RATED LOAD CURRENT (25°C)	LOAD VOLTAGE (V)	CONTROL VOLTAGE
RM1A23D25	25A	42 – 265V AC	5 to 32V DC
RM1A48D25	25A	42 – 530V AC	5 to 32V DC
RM1A23D50	50A	42 – 265V AC	5 to 32V DC
RS1A48D50	50A	42 – 530V AC	5 to 32V DC
RS1A23D75	75A	42 – 265V AC	5 to 32V DC

Dimensions and weights



RS/RM		
H	W	D
58mm	45mm	29mm
Weight		10A-50A 60g
		75A 100g
Control terminals		4mm ²
Power terminals		16mm ²

*Important Note - Consult specification and installation datasheet, for further information contact CAL.