

CONTROL SYSTEM RELAY & GROUND FAULT DETECTION

The CS RELAY/GFD PCB is a Intelligent Control System expansion board for current monitoring, isolation monitoring and switching of six two pole relays.

The benefit of isolation monitoring on all relays is the ability to detect, switch off and isolate the troubled circuit and leave the other circuits active.

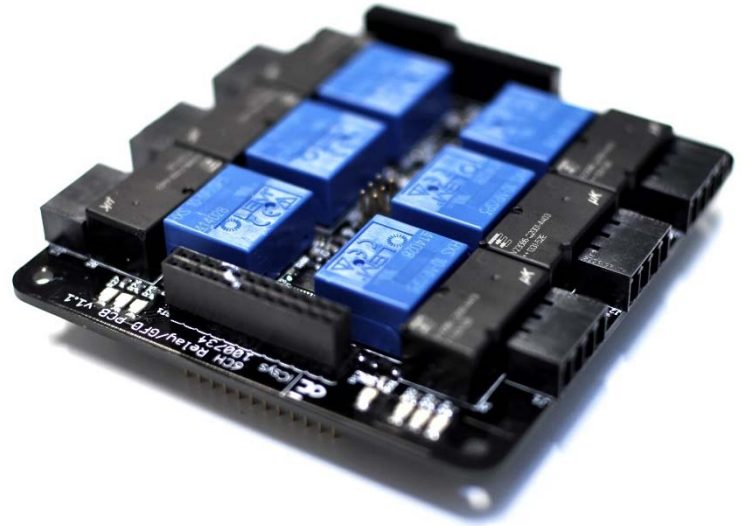
Each channel has an auto-fuse function. The current trip level can be set and the relay will act like a resettable fuse if the current passes the setpoint.

The actual isolation resistance can be read from the user interface of the system.

Three jumpers are provided on the board for easy addressing in a multi board system.

LED's are provided to indicate which channels are on and off.

The insulation monitoring is done by inserting a DC voltage between the relay output 0V(DC) or Neutral(AC). If a groundfault is present, this voltage will drop because of high impedance output. The voltage drop is measured and then used to indicate groundfault.



Features:

- *Control System Expansion*
- *LED indicators for diagnostics*
- *Two pole relays for complete isolation*
- *Ground fault detection on all channels*
- *Auto Fuse on all channels*

General Specifications:

- *Max current for each channel: 15A*
- *Dimension: 96 x 90 x 17mm*
- *Weight: 70g*
- *Power consumption: 1.4 Watt*
- *DC Voltage applied between output 0V or neutral and chassis ground: 30VDC*
- *Maximum Relay contact voltage: 230VAC*
- *Short circuit trip delay: 10ms*

Ordering Part Numbers:	
Description	Part No:
CS RELAY/GFD PCB	100734
Power Connector 4pin Straight	100459

