

ETSInc. GPRB-16 relay board Instructions

The RI16 is a sixteen channel, small form factor general purpose relay board. It features multi-voltage inputs and form C high current capacity outputs. Both the input and output channels can be configured to share a common connection (typically ground) and this eliminates the need for installing small jumper wires between channels in installations where a common ground (or power) will be used.

Inputs

Connect trigger voltage 12 or 24Vdc(GBRB-16-12/24) or 6 or 12Vac (GPRB-16-6/12) on the "in" terminals. Be sure to observe the trigger voltage polarity when using DC input voltages. Be sure to set the input voltage jumpers correctly.

Input Voltage Jumpers

GPRB-16-12/24: 12v trigger voltage=LV position, 24v trigger voltage=HV position
GPRB-16-6/12: 6v trigger voltage=LV position, 12v trigger voltage=HV position

Input Common Jumpers

If one common will be used for all input trigger voltages, connect the common connection of the trigger voltage to any "-" terminal of an input. Then, place the "isolate/com" jumper for every input channel in the "com" position. This connects all "-" terminals of all channels together. If placed in the "isolate" position, the "-" terminal is isolated from all other inputs.

Relay outputs

The LED will light for all channels where there is an input voltage and the relay contacts for those channels will close. Connect loads to C(common) and NO(Normally Open) or NC(Normally Closed). Up to 8amp DC or 10amp 120VAC loads can be connected

Output Common Jumpers

If one common will be used for all output relays, connect the common load connection to any one of the channels "C" terminal. Then place the "com/isolate" jumper for every output channel in the "com" position. This connects all "C" terminals of all channels together. If placed in the "isolate" position, the "C" terminal is isolated from all other output relays.

Warranty

All ETS products carry a one year parts and labor warranty. This warranty does not cover damages as a result of misuse, improper handling of the unit or exposure to extreme temperatures or moisture. At its discretion, ETS reserves the right to repair or replace this unit under the conditions of the warranty. If you experience problems with your equipment call ETS at: 505-888-3923 to obtain a return authorization number. Equipment requiring repair beyond the warranty period or units that have been damaged or are not covered under the warranty can be repaired by ETS for a minimal cost under most conditions.

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By

ETSInc.

INPUT VOLTAGE JUMPER SELECT

GPRB-16-12/24:
12V=LV POSITION
24V=HV POSITION
GPRB-16-8/12:
8V=LV POSITION
12V=HV POSITION

INPUT TRIGGER VOLTAGE
IF DC, OBSERVE POLARITY

COM POSITION:
TIES "C" TO OTHER CHANNELS "C" CONNECTIONS
ISOLATE POSITION:
"C" IS NOT TIED TO OTHER CHANNEL "C" CONNECTIONS

