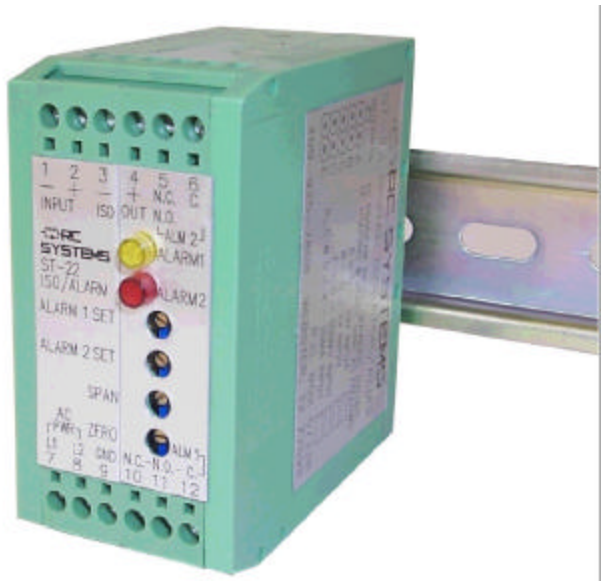
MODEL ST-22 SIGNAL ISOLATOR / CONVERTER WITH OPTIONAL DUAL ALARMS

FEATURES:

- Analog input range is field configurable via internal jumper options. Standard units offer 0-100mV, 0-1V, 0-10V and 4-20mA inputs.
- Provides 1500 Vrms input / output isolation.
- Isolated 4-20mA analog output is capable of driving 900 ohm loads.
- Useful as I / I converter which isolates and boosts loop drive capability.
- May be equipped with optional single or dual, high or low, alarm trips.
- High density DIN rail mounting with optional NEMA 4X and NEMA 7 enclosures available.



The R. C. Systems Co., Inc. Model ST-22 Signal Isolator / Alarm accepts millivolt, volt and 4-20mA inputs and provides an isolated 4-20mA output capable of driving up to 900 ohms of loop impedance. It may also be equipped with dual, front panel accessible alarm set-points and provide dry contact alarm outputs for each. However, its primary design function is as the problem solving signal isolator.

When do you need an isolator? Due to its special abilities the ST-22 is useful in many situations where other devices do not offer adequate solutions. Following are several examples of such circumstances:

• Whenever low level signals are transmitted on top of high common mode voltages. Here the isolator's high CMV/CMR ratings are required for safe and accurate signal measurement.

• If troublesome grounds disturbances and ground loops become a problem. With no path for current to flow from input to output, isolation virtually eliminates ground loops.

• For applications which require expensive instrumentation to be protected from industrial malfunctions. The isolator's high input CMV rating guards against transients and high fault voltages.

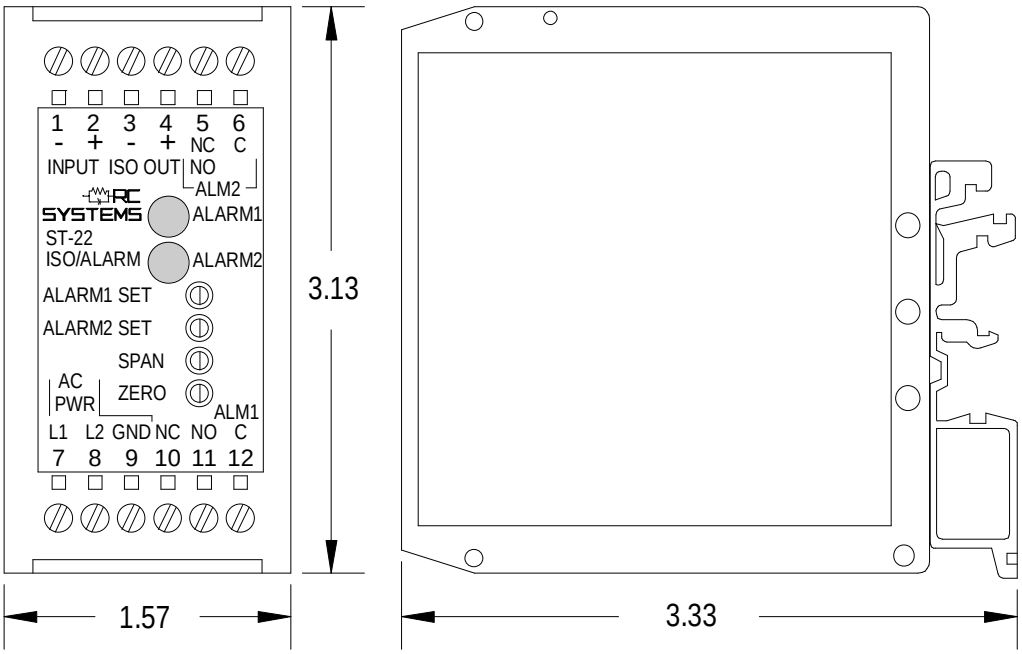
• Or, if the instruments operate in noisy environments. Interference is often caused by radiation from motors, relays and power lines. The isolator's high CMR rating will cause unwanted signals to be blocked.

Often times problems may not be discovered until after installation. The ST-22's compact size and ease of mounting makes it easy to install later, when all other wiring is in place.

SPECIFICATIONS

ANALOG INPUT	0-100 millivolts, 0-1 volt, 0-10 volts into 10 megohm and 4-20 milliamps into 62 ohms impedance are field selectable via plug in jumper options.
ANALOG OUTPUT	Isolated 4-20mA output capable of driving up to 900 ohm loads.
INPUT TO OUTPUT ISOLATION	Galvanic 1500 volts continuous RMS.
OPTIONAL ALARM RELAY DRY CONTACTS	For switching resistive loads of .5 amp @ 125VAC and 2 amp @ 30VDC. Alarm 2 contacts are jumper selectable Form A or Form B. Alarm 1 contacts are Form C.
ACCURACY	±.1% of full scale.
TEMPERATURE RANGE	-10 - 60 degrees C.
TEMPERATURE DRIFT	.02% per degree C over the ambient termperature range.
POWER SUPPLY	115 VAC, or by soldered jumper wires 220VAC, ±10%; 50/60 HZ; 2 watts. 24VDC power available by special order (24VDC power supply is not isolated from 4-20mA output).
ENCLOSURE	Difficult to ignite thermoplastic for high density DIN rail mounting. NEMA 4X and NEMA 7 available by special order.

DIMINSIONS IN INCHES



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