4700

1/4 DIN Limit Alarm Unit



The 4700 is a safety cut-out, with optional annunciators and alarms. A latched relay cuts process power if safe values are exceeded. A reset is required before continuing.

- High or low trip
- 5 amp latched relay
- Remote reset option
- 2 Annunciators or alarms
- **Exceed & relay indicators**
- Configuration via PC
- RS485 comms
- PV retransmit option



Technical Data

Features

Output Configuration

Alarm 1 & 2 Types Limit Action **Output Reset Action**

Annunciator Reset Action

Human Interface

PC Configuration

Input

Thermocouple

RTD DC Linear

Impedance

Accuracy Sampling Sensor Break Detection

Outputs & Options

Limit Trip Relay Alarm Relays **Retransmit Outputs** Communications Remote Reset option

Operating & **Environmental**

Temperature & RH Power Supply Front Panel Protection Approvals and Certification

Up to 3 Total. 1 latching trip relay, max 2 alarms relays, max 1 DC linear retransmit (PV or limit value)

Process high, process low, setpoint deviation, band, logical OR alarms or trip annunciator.

Latching relay output when PV exceeds set value. Selectable for high or low trip activation.

Limit output can be reset only when exceed condition is absent. Local or remote reset

Annunciator output can be reset at any time. Local or remote reset options.

4 button operation, dual 4 digit 13mm & 10mm high LED displays. Exceed, output & alarm indicators

Off-line configuration from serial port to dedicated config socket (comms option not required)

J, K, R, S, T, B, L, & N.

3 Wire PT100, 50Ω per lead maximum (balanced)

0-20/4-20mA, 0-50/10-50mV, 0-5/1-5/0-10/2-10V. Scaleable -1999 to 9999, dec point available

>100M Ω for Thermocouple and mV ranges, 47K Ω for V ranges and 4.7 Ω for mA ranges

+/- 0.25% of input span +/- 1 LSD (T/C CJC better than 0.7°C)

4 per second, 14 bit resolution approximately

<2 secs (except zero based DC ranges), control O/P's turn off, high alarms activate for T/C and mV ranges, low alarms activate for RTD, mA or V ranges.

Contacts SPDT 5Amp resistive at 240V AC, >100,000 operations

Contacts SPDT 2Amp resistive at 240V AC, >500,000 operations

0-20/4-20mA into 500Ω max, 0-10/0-5V into 500Ω min. Accuracy typically +/-0.25%

2 Wire RS485, 1200 to 9600 Baud, West ASCII

Allows remote latched relay and annunciator reset, using volt free or TTL

input (Reset = -0.6 to 0.8V, or contact closure)

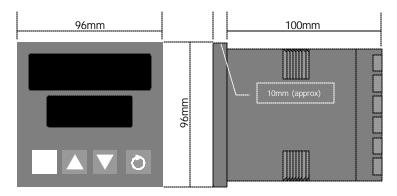
0 to 55°C (-20 to 80°C storage), 20% to 95%RH non-condensing

100 to 240V 50/60Hz (optional 20 to 55V AC/22 to 65V DC), approx 4 Watts

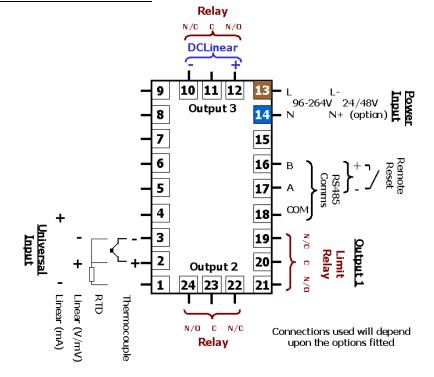
IEC IP66 (Behind panel protection is IP20)

CE, UL & Ulc

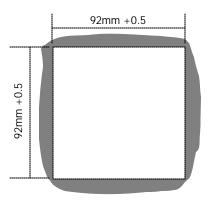
Dimensions



Connection Details



Panel Cut-out



Field Reconfiguration

Input

Configurable to any type, no extra parts required

Output 1

Type is fixed as Limit Relay

Output 2

Configurable as Alarm or Annunciator, via plug-in Relay

Output 3

Configurable as Alarm or Annunciator via plug-in Relay, or retransmit using

DC Linear module

Option Slot

Configurable as RS485 comms or Remote Reset, via plug-in modules

