

Partlow 1161+, 1801+ & 1401 Limit control



- High or Low Trip Points
- 5 Amp Latching Limit Relay
- Remote Reset Option
- Exceed & Relay Indicators
- Jumperless Configuration
- Auto Detected Hardware
- Modbus & ASCII Comms
- Two Annunciators or Alarms
- Available in 1/16, 1/8 & 1/4 DIN Formats



The Partlow range of 1161+, 1801+ and 1401+ have a programmable safety cut out with optional outputs for annunciators and alarms. A latched relay cuts power to your process if safe values are exceeded. These units must be reset before the process can continue. They have the improved Plus Series hardware and user interface for optimal ease of use.

Specification

Features

Output Configuration

Alarm 1 & 2 Types

Output Reset Action Annunciator Reset Action Human Interface

PC Configuration

Input

Thermocouple RTD DC Linear

Impedance

Accuracy
Sampling
Sensor Break Detection

Output & Options

Limit Trip Relay Outputs Alarm Relay Outputs SSR Driver Alarm Outputs Triac Alarm Outputs DC Linear Retransmit Outputs

Transmitter Power Supply Communications Digital Input Up to 3 possible, for latching trip relays, alarm/annuncator relays, 24VDC transmitter power supply or retransmit of process value or limit trip setpoint

Process high, process low, Limit SP deviation, band, logical OR alarms or trip annunciator. Alarms have fully adjustable hysteresis.

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

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

4 button operation, dual 4 digit 10mm & 8mm (6700+ & 8700+), 13mm & 10mm (4700+) high LED displays, optional choice of colours (Red/Red, Red/Green, Green/Red or Green/Green), plus 4 LED indicators

Off-line configuration from PC serial port to dedicated config socket (comms option not required). Configuration Software for Windows 98 or higher. West Part Number: PS1-CON

J, K, C, R, S, T, B, L, N & PtRh20%vsPtRh40%.

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

0 to 20mA, 4 to 20mA, 0 to 50mV, 10 to 50mV, 0 to 5V, 1 to 5V, 0 to 10V, 2 to 10V.

Scaleable -1999 to 9999, with adjustable decimal point

>10M Ω for Thermocouple and mV ranges, 47K Ω for V ranges and 5 Ω for mA ranges

±0.1% of input range ±1 LSD (T/C CJC better than 1°C)

4 per second, 14 bit resolution approximately

<2 secs (except zero based DC ranges), Limit trip and annunciators activate. High alarms activate for Temperature and mV ranges, low alarms activate for, mA or V ranges</p>

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

Non-latching SPDT, contacts 2Amp resistive at 240V AC, >500,000 operations

Drive capability >10V DC in 500Ω minimum

0.01 to 1 Amp AC, 20 to 280Vrms, 47 to 63Hz

0 to 20mA, 4 to 20mA into 500 Ω max, 0 to 10V, 2 to 10V, 0 to 5V into 500 Ω min.

Accuracy ±0.25% at 250Ω (degrades linearly to 0.5% for increasing burden to specified limits)

Output 24VDC (nominal) into 910Ω minimum to power external devices

2 Wire RS485, 1200 to 19200 Baud, Modbus and ASCII protocol (selectable)

Volt free or TTL input. -0.6 to 0.8V or contact closure resets latched relays and annunciators

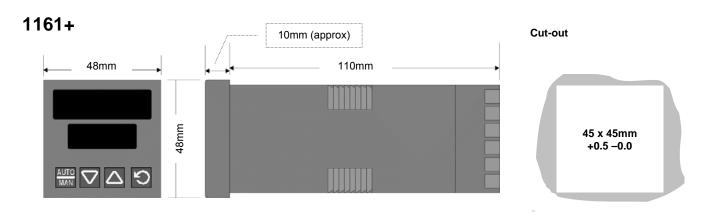




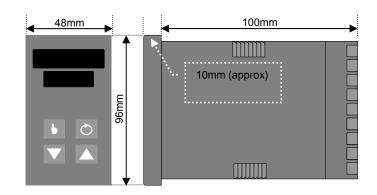
Operating & Environment

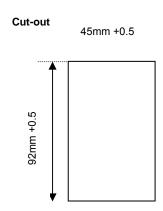
Temperature & RH Power Supply Front Panel Protection Standards 0 to 55° C (-20 to 80° C storage), 20% to 95% RH non-condensing 100 to $240V\pm10\%$ at 50/60Hz 7.5VA, (optional 20 to 48V AC 7.5VA/22 to 65V DC 5 watts) IEC IP66 (Behind panel protection is IP20) FM, CE, UL & ULC recognised

Dimensions

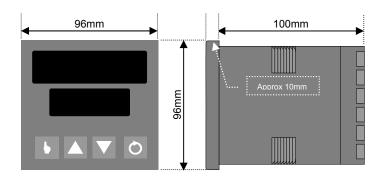


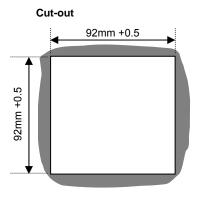
1801+





1401+

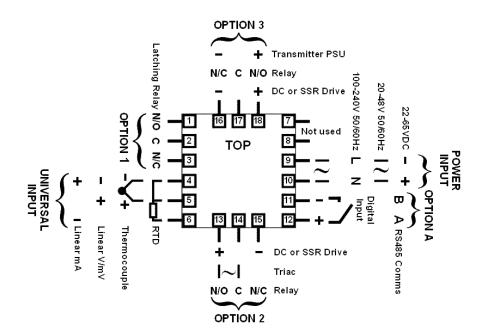






Wiring Connections

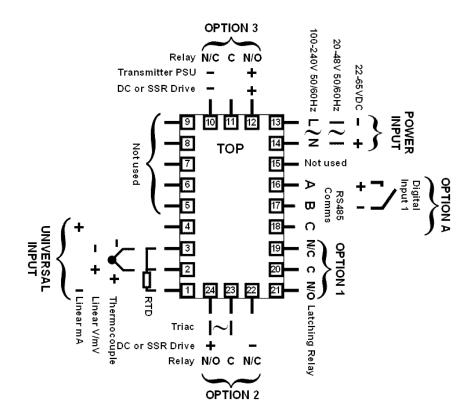
1161+



Field Reconfiguration

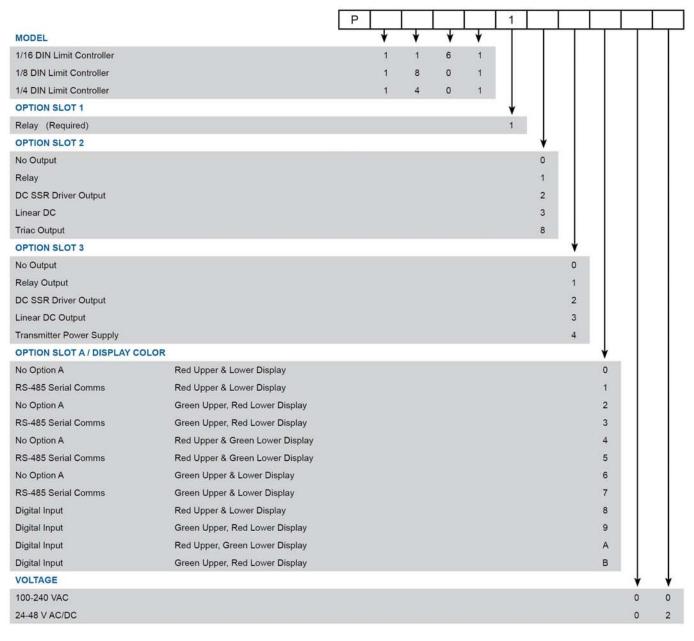
Jumper-free configuration for any type (no extra parts required) **Option Slot 1** Latching Limit RelayFixed **Part Number Option Slot 2** Relay OutputPO2-C10 Linear mA/V DC Output PO2-C21 SSR Driver OutputPO2-C50 Triac OutputPO2-C80 **Option Slot 3** Relay OutputPO2-C10 Linear mA/V DC Output PO2-C21 SSR Driver OutputPO2-C50 24VDC Transmitter PSU...... PO2-W08 **Option Slot A Part Number** Digital Input......PA1-W03 RS485 Comms PA1-W06

1801+ & 1401+





Order Code



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