

Partlow 1160+, 1400+, 1800+ Temperature & Process Controllers



- Jumperless Configuration
- Auto Detected Hardware
- Process & Loop Alarms
- Modbus & ASCII Comms
- Auto or Manual Tuning
- Heat/Cool Operation
- Ramping Setpoint
- Remote/Dual Setpoint Options
- Available in 1/16, 1/8 & 1/4 DIN Formats



With their improved interface, technical functionality and field flexibility, the Partlow 6100+, 8100+ and 4100+ give you the best in comprehensive control for most temperature and process control loops.

Specification

Features

Control Types Auto/Manual

Output Configuration

Alarm 1 & 2 Types

Human Interface

PC Configuration

Input

Thermocouple RTD DC Linear

Impedance Accuracy Sampling

Sensor Break Detection

Outputs & Operations

Control & Alarm Relays Control SSR Driver Outputs Triac Outputs DC Linear Outputs

Transmitter Power Supply Communications Digital Input Remote Setpoint Input Full PID with Pre-tune, Self-tune, manual tuning, or On-Off control. Heat only or heat & cool

Selectable from front panel or via digital input, with bumpless transfer

Up to 3 possible, for control, alarm, 24VDC transmitter power supply or retransmit of process value or setpoint

Process high, process low, SP deviation, band, logical OR / AND. Also 1 loop alarm for process control security. Process alarms have adjustable hysteresis.

4 button operation, dual 4 digit 10mm & 8mm high (6100+, 8100+) and 13mm & 10mm high (4100+) LED displays, optional choice of colours (Red/Red, Red/Green, Green/Red or Green/Green), plus 5 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 seconds (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 2 Amp 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 $\!\Omega$ max, 0 to 10V, 2 to 10V, 0 to 5V into 500 $\!\Omega$ min.

Control outputs have 2% over/under drive applied. Accuracy $\pm 0.25\%$ 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)

Selects between 2 setpoints or Auto/Manual control. Volt free or TTL input

0 to 20mA, 4 to 20mA, 0 to 5V, 1 to 5V, 0 to 10V or 2 to 10V. Scaleable -1999 to 9999. Local/Remote setpoint selected from front panel

W. H. Cooke & Co., Inc. Supplier of industrial controls, heaters, and sensors since 1963



Operating & Environmental

Temperature & RH

Power Supply

Front Panel Protection

Standards

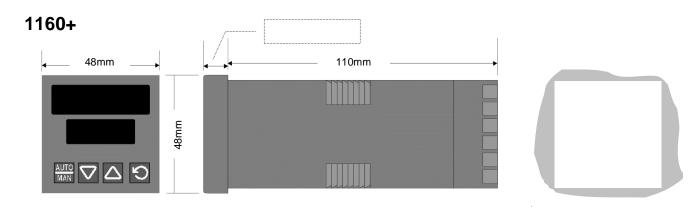
0 to 55°C (-20 to 80°C storage), 20% to 95% RH non-condensing

100 to 240V 50/60Hz 7.5VA (optional 20 to 48V AC 7.5VA/22 to 65V DC 5 watts)

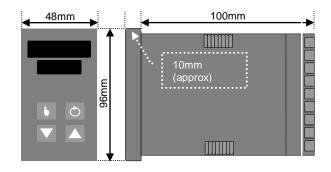
IEC IP66 (Behind panel protection is IP20)

CE, UL & ULC recognised

Dimensions

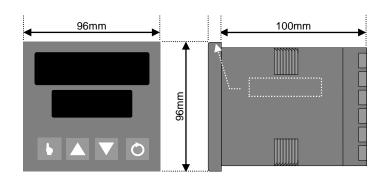


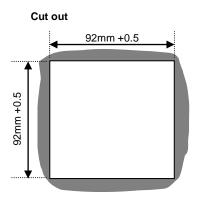
1800+





1400+





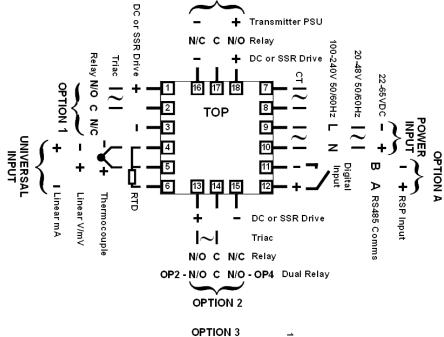


Field Reconfiguration

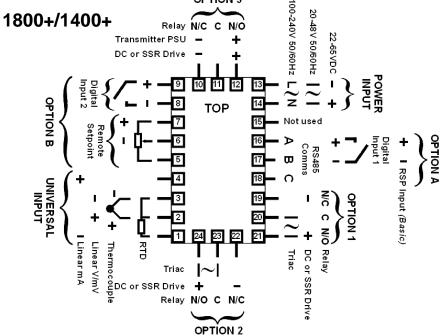
Wiring Connections

1160+

Transmitter PSU N/O Relay

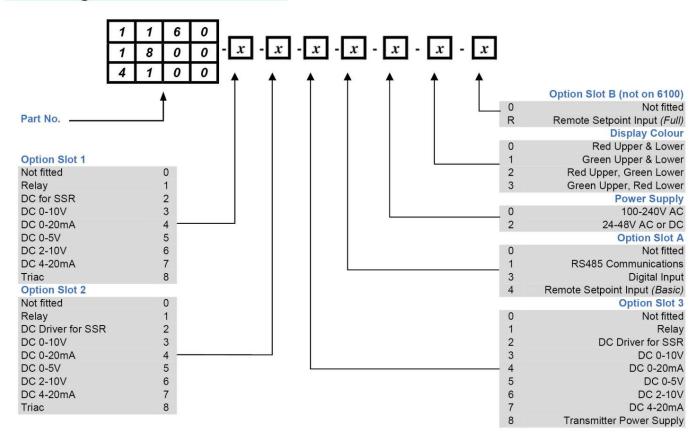


OPTION 3





Ordering Code



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For more details on the complete product range from West Control Solutions please contact your local distributor or visit www.West-CS.com.

Manufacturer of thermocouples & RTD's Made in the USA