

West 8600

1/8th DIN Dual Display

Modular Plastics Controller



The West 8600 temperature controller can measure and display the heater current. Special heater break alarms give early warning of element failure, to protect equipment and product. A soft-start feature is available for process warm up.

- Heat/Cool operation
- Process & Heater alarms
- Soft Start
- Ramping setpoint
- Current "Quick Transfer"
- Current Display
- RS485 Comms
- PC configuration



Technical Data

Features

Control Types

Soft Start

Auto/Manual

Output Configuration

Process Alarm Types

Heater Break Alarm Types

Human Interface

PC Configuration

Input

Thermocouple

RTD

Impedance

Accuracy

Sampling

Sensor Break Detect

Heater Current

Outputs & Options

Ctrl & Alarm Relays

Control SSR Outputs

Triac Outputs

Retransmit Outputs

Communications

Dual SP/Current Transfer

Operating & Environmental

Temperature & RH

Power Supply

Front Panel Protection

Approvals and Certs

Full PID with Pre-tune, Self-tune, Manual Tuning, or On-Off control. Heat only or heat & cool

Allows lower SP value and cycle time during the process start-up phase

Selectable from front panel, with bumpless transfer. Instant power-off feature also standard

Up to 4 total. Max 2 for control (Heat & Cool), max 3 for Alarms, max 1 for retransmit of PV or SP

Process high, process low, SP deviation, band, logical OR

Current low or high, (in absolute amps or % of nominal current) plus contactor/thyristor short circuit

4 button operation, dual 4 digit 10mm & 8mm high LED displays, plus 3 LED 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)

>100MΩ

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

4 per second, 14 bit resolution approximately

<2 secs, control O/P's turn off, high alarms activate for TC ranges, low alarms activate for RTD

0-50mA secondary from external current transformer. Display is scaleable up to 100 amps

Contacts *SPDT 2Amp resistive at 240V AC, >500,000 operations.*Dual relay=SPST for O/P's 2 & 4

Drive capability, output 1= >10V DC into 500Ω min, output 2= >4.3V DC into 250Ω min

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

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, Modbus or West ASCII (Selectable)

Volt free or TTL input. Selects between 2 setpoints or quick transfer of heater current as nominal value

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

90 to 264V 50/60Hz (optional 20 to 55V AC/22 to 65V DC), approx 4 Watts

IEC IP66/NEMA 4. (Behind panel protection is IP20)

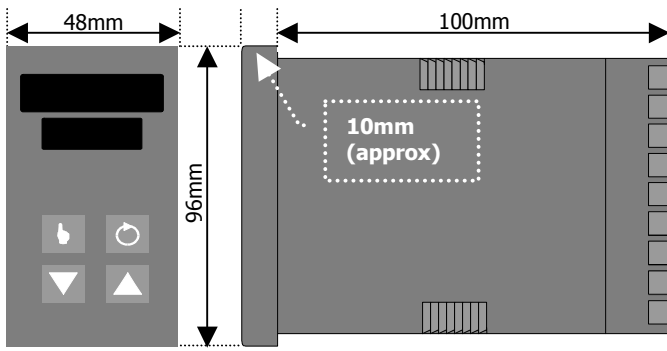
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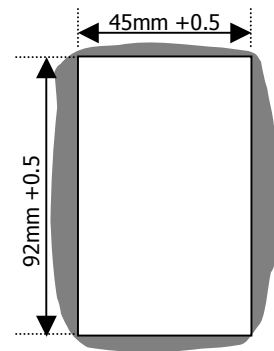
Support@ISSLtd.co.uk

Enquiries@ISSLtd.co.uk

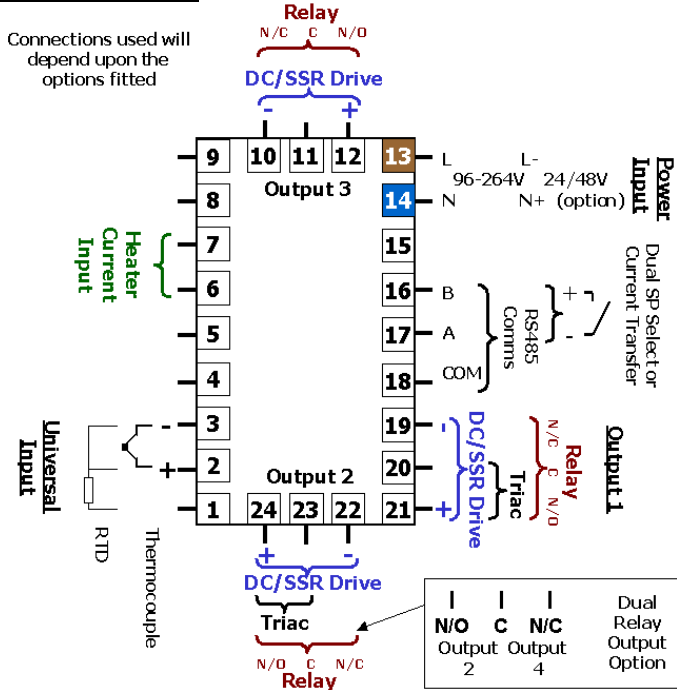
Dimensions



Panel Cut-out



Connection Details



Field Reconfiguration

Input

Configurable Thermocouple or RTD, no extra parts required

Output 1

Type is fixed as Relay/SSR (selectable)

Output 2 (and 4)

Configurable as Cool O/P or Alarm via plug-in Relay, SSR, Triac or DC Linear modules. A Dual Relay card is available which allows Cool O/P or Alarm on output 2 plus Heater Break Alarm on output 4

Output 3

Configurable as Alarm via plug-in Relay module, or retransmit using DC Linear module

Option Slot

Configurable as RS485 comms or dual setpoint selection/current transfer, via plug-in modules

Order Code



Input type

3 Wire RTD or DC mV	1
Thermocouple	2

Output 1

Relay Control	1
DC for SSR Control	2
Triac Control Output	8

Output 2 and 4

Not fitted	0
Relay Control or Alarm 2	1
DC for SSR Control or Alarm 2	2
Triac Control	8
Dual Relay Control or Alarm, & Heater Break	9

Options and Power Supply

00	No Options/90-264V AC supply
02	No Options/24-48V AC or DC supply
10	RS485 Comms/90-264V AC supply
12	RS485 Comms/24-48V AC or DC supply
30	Dual SP or Current Transfer/90-264V AC supply
32	Dual SP or Current Transfer/24-48V AC or DC

Output 3

0	Not fitted
1	Relay Alarm 1 output
3	DC 0-10V Re-Transmit PV or SP
4	DC 0-20mA Re-Transmit PV or SP
5	DC 0-5V Re-Transmit PV or SP
7	DC 4-20mA Re-Transmit PV or SP

In accordance with our policy of continuous improvement, we reserve the right to change specifications from those shown in this document.

<http://www.ISSLtd.co.uk>

Support@ISSLtd.co.uk

Enquiries@ISSLtd.co.uk

PO Box 1 • Ilkley • West Yorkshire • LS29 8EU
 Phone: 01943 602001 • Fax: 01943 816796
 Website: www.issltd.co.uk • Email: sales@issltd.co.uk

instrumentation
 Systems & Services Ltd