# 6600

# 1/16 DIN Plastics Controller



The 6600 provides high quality control in applications requiring a heater break function or soft-start for process warm up. Heater current can also be displayed, removing the need for a separate ammeter.

- 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

Detection

Heater Current

# **Outputs & Options**

Ctrl & Alarm Relays Control SSR Outputs Solid State (Triac) Outputs

Retransmit Outputs Communications Dual SP/Current Transfer

Operating & Environmental

Temperature & RH
Power Supply
Front Panel Protection

Approvals and Certification 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 available as standard

Up to 4 total. Max 2 for control (Heat & Cool), max 2 for Alarms,

max 1 for retransmit Process value or Setpoint

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,  $50\Omega$  per lead maximum (balanced)

 $>100M\Omega$ 

+/- 0.25% of input span +/- 1 LSD (T/C CJC better than  $0.7^{\circ}$ C)

4 per second, 14 bit resolution approximately

<2 secs, control O/P's turn off, high alarms activate for thermocouple 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  $500\Omega$  min, output 2>4.2V DC into  $250\Omega$  min

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

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

2 Wire RS485, 1200 to 9600 Baud, Modbus or ASCII (Selectable)

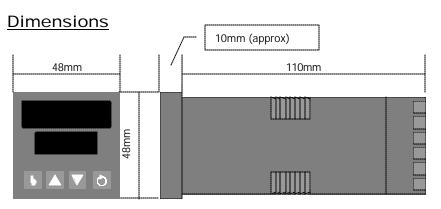
Volt free or TTL input. Selects between 2 setpoints or quick transfer of heater current as nominal value

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

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



# **Connection Details**

# 45mm +0.5

Panel Cut-out

# 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

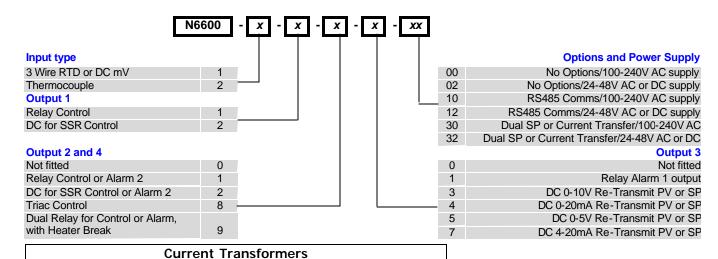
### **Option Slot**

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

### Relay Connections used will depend upon the options fitted DC 16 17 18 Heater Output 3 Current Input 96-264V 24/48V AC or DC N+ (option) 5 Dual SP **Output 2** Selection/Quick Transfer (Option) 6 |13| |14| |15 RTD Thermocouple SSR Drive Dual Relay N/O С N/O Triac Output Output Output Option Relay

## Order Code

25 Amp



 50 Amp
 Part Number
 85259

 100 Amp
 Part Number
 85260

Part Number

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

85258