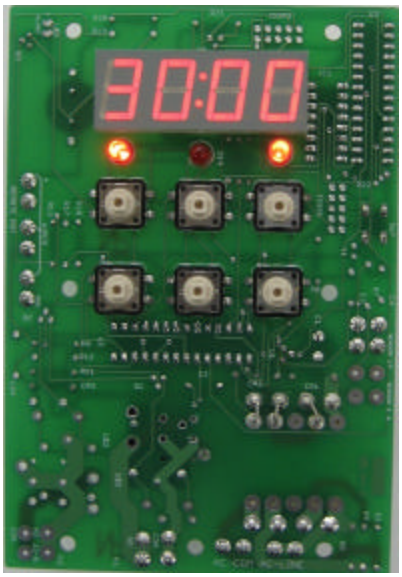
QUANTEM Product Bulletin Series 130

Sub-panel Universal Digital Microprocessor Time and Temperature Control



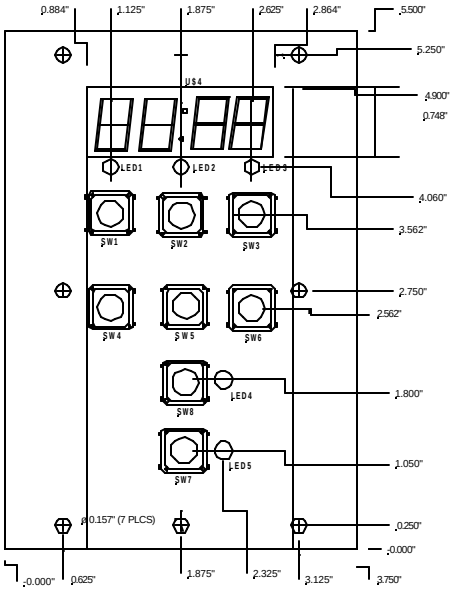
General Description

The Series 130 is an economical high performance time and temperature control. The Series 130 is a generic micro-processor platform which is configurable and designed to be a one-size-fits-all controller. The design uses a microprocessor which can be programmed to accept RTD, NTC, PTC or thermocouple probes. It has 1 to 3 probe inputs, 1 to 3 relay outputs which can be rated at 5, 10, or 30A. It accepts a potentiometer input, or can be set using the 8 optional pushbutton switches. There are provisions for multiple digital inputs and the base board can be expanded to accept custom front panels. The optional 4 segment LED display can be either a clock display or numeric display with decimal point. If you need a time/temperature or temperature control, please email sales@QuantemCorp.com to discuss your application. The Series 130 platform is low cost and versatile while providing high end options and performance.

Specifications

Line Voltage: 120 +/-15% or 240 +/-10% 50/60 Hz VAC or 24 VAC factory set
Output Switching Device Options: One to three
Relay Options Output 1 & 2:
10A @ 120VAC / 5A @ 240VAC or
10A @ 250VAC, 1/4HP @ 240VAC, 1/8HP @ 120VAC or
30A @ 120/240VAC
Relay Output 3: 1 AMP
Control Mode: On/Off
Operating Ambient: 0° to 80°C (32°F to 176°F)
Input: One to three probes
Probe Options: NTC, PTC, PRTD or Thermocouple
Set-point Options: Analog potentiometer or digital pushbutton

Dimensional Outline



Mechanical drawing shows 8 button configuration, unit is also available in a encoder driven version which has a different dimensional outline.

How to Order

All possible combinations not listed, call factory for details.

Series 130 - □□□-□□□□-□□

Input Voltage
1 110 VAC **3** 24VAC/DC
2 220 VAC **4** 12VAC/DC

Output 1
0 None **2** 10A **4** SSR
1 5A **3** 30A **5** 2A

Output 2 (same as output 1)

Input 1
0 None **2** PTC **4** PRTD 1000
1 NTC **3** PRTD 100 **5** T/C

Input 2 (same as input 1)

Alarm
0 None **3** External 5Vdc
1 Small buzzer **4** External 12Vdc
2 Large buzzer **5** Large Buzzer 100db

Potentiometer / Encoder
0 None **5** On board Encoder
1 Ext. pot **6** On board pot & encoder
2 Ext. encoder **7** On board pot / ext encoder
3 Ext pot & ext encoder **8** On board encoder / ext pot
4 On board pot

Sequential Custom ID
Defines: Output 3, Sensor 3, Digital input, SSR drive, DIP switches, etc.

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