378 Temperature Controller

Monitor and control temperature in process water

- Analog voltage output
- Proportional bandwidth control
- Set points on front panel
- Large bright red LED screen
- Manual adjustable reset

Description

Global Water's Temperature Controllers are high performance industrial grade digital indicating, single set point proportional/On-Off controllers for use with type K, J, T and E thermocouples. Thermocouple gain and cold junction are automatically compensated by the Temperature Controller's internal electrode circuits. An accurate 1 mV per display count analog output is provided to interface the Temperature Controller with a recorder, printer and so on. The Temperature Controller uses a bright red LED screen.

The Temperature Controllers are a single set point proportional/On-Off controller. The proportional bandwidth is adjustable from On-Off to 100 ºC or 100 ºF with built-in hysteresis. The cycle time is factory set to 20 second ± 3 seconds. The Temperature Controllers have a front panel manual adjust reset potentiometer.

The Temperature Controllers are 1/8 DIN front panel mount inside of a plastic housing. Temperature probe connections are made via spade lug connectors.

Specifications

Model	Type	Range	Resolution	Accuracy
378KC	K	0 to 1000 ºC	1 ºC	± 0.50% ± 1 count
378KF	K	0 to 1999 ºF	1 ºF	± 0.50% ± 1 count
378JC	J	0 to 550 ºC	1 ºC	± 0.40% ± 1 count
378JF	J	0 to 1000 ºF	1 ºF	± 0.40% ± 1 count

Hysteresis: ºC model 6 ºC (± 3 ºC)
ºF model 10 ºF (± 5 ºF)
Proportional Band: Adjustable from on/off to 100 ºC or 100 ºF with built in hysteresis
Cycle Time: 20 ± 3 seconds
Reset: Manual adjust
Operating Temperature: 0 to 40 ºC
Analog Output: 1 mV/count, ± 0.30% of span ± 1 mV
T/C Burnout: Upscale
Output Relay: 8 A at 115 VAC, 4A at 230 VAC, resistive load
Power Source: 115/230VAC , ± 10% 50/60 Hz
Dimensions: 3.75x2x4.25in (96x48x105mm)
Weight: 1 lb (0.38 kgs)

Options and Accessories

378JC/JF
Temperature Controller
Does not include temperature probe.

378KC/KF
Temperature Controller
Does not include temperature probe.

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