TEMPERATURE CONTROL

DATA SHEET
SERIES 860

11-3-83 DOB

GENERAL DESCRIPTION:

The Series 860 Temperature Control accepts thermocouple inputs and conditions that input signal so that a 2mV/°C or °F output is obtained. The set point is adjustable via the front panel or it can be applied to the control from an external source. The remote/local switch controls this feature. The remote set point is completely adjustable, i.e., span and zero adjustments. The control features a digital readout that reads process temperature of the control medium or set point when called for. This readout has a scaling amplifier which allows for °C or °F readout. A secondary output is also featured. This is a relay output which is energized when the control has deviated from set point by a stable amount. The secondary output relay will be energized on a positive, negative or combination deviation, selectable via a 3-position switch. The deviation set point is adjustable such that the deviation set pot can have several ranges. As an option, the primary output can be a linear 4-20mA output rather than the time proportioning switch output. Another option is to have an ON-OFF control with 3° of hysteresis. This option is jumper selectable on the time proportioning circuitry.

SPECIFICATIONS:

Control Mode: Primary - Time proportioning with automatic rate & reset. Secondary - ON-OFF - Relay.

Output Selection: Primary - 1) Solid State 1 amp @ 120/240VAC.
                  2) 0-20 ma
                  3) 4-20 ma

Secondary - 3A relay

Process - 2mv/°C or 2mv/°F

Temperature Range: 1) 0-1370°C Type K
                    0-2500°F Type K
                    2) 0-1600°F Type J
                    0-875°C Type J

Calibration Accuracy: ± 0.25% of temperature range span.

Proportional Band: 5-200°C/9-360°F.

Cycle Time: 1-20 sec.; internally adjustable.

Balance: ± 5°C; front panel adjustable.

Reset: 2-20 minutes per repeat; internally adjustable.

Rate: 0-5 minutes; internally adjustable.
Deviation S.P.: 5-100°C/10-200°C.

Line Voltage: 120 or 240VAC + 10% 50/60 Hz.

Operating Ambient: 30-130°F

PACKAGING FEATURES:
The control has the following physical attributes and features:

1) Programming input terminal
2) 2mv/° output terminal
3) Hidden balance adjustable pot in front panel
4) Remote/local switch in front panel
5) Red LED in front panel indicating load is energized
6) Red LED in front panel indicating alarm (secondary output) is energized
7) Push to set primary set point pot in front panel
8) Jumper selectable 115 or 230 VAC operation
9) Automatic cold junction compensation sensing at T.C. input connections
10) 1/4 DIN plug-in design