

Specifications

Inputs: Thermocouples
 Built-in compensation with sensor break protection and incorrect polarity.
 Accuracy: < 0.25% for max. 50 ohm lead res.
 Linear error: < 0.1%
 Influence of ambient: < 0.01%/K
 RTD; (Pt 100)
 Built-in protection against breaks and short-circuits.
 Sensor current: max. 1mA
 Accuracy: < 0.2%
 Linear error: < 0.1%
 Influence of ambient: < 0.01%/K

Control Action: Standard: PID with optimizing (auto-tuning)
 P-, PD-, PI action possible.

Parameter Adjustment: Feed back P (xp) : 0 to 100 %
 D (Tv) : 0 to 200 sec.
 I (Tn) : 0 to 999 sec.
 Cycle time: 1 to 240 sec.
 Limits; output: 1 to 100%
 Setpoint ramp: 0.0 to 99.9 deg/min.

Data Protection: EAROM, semiconductor memory

7-segment indication: Height = 10 mm

Storage Temperature: -30 to 75 deg. C (-22 to 167 deg. F)

Operating Temperature: 0 to 50 deg. C (32 to 122 deg. F)

Climate Class: KWF DIN 40040: Corresponding to 75% relative humidity, no condensation.

Outputs:
 a. Relay, n/o relay (max. 250 VAC, max. 5A)
 b. Bistable Voltage output depending on user configuration
 isolated:
 ext. 24V DC +/- 25%; max. 20 mA, R1 = 1 K Ohm
 non-isolated:
 int. 24V DC +/- 25%; max. 20 mA, R1 = 1 K Ohm

Alarm Outputs: Relays (max. 250 V AC; max. 5A)

Supply Voltage: 230 V AC or 115 V AC; can be switched in field -10, +6%, 48 - 62 Hz
 Influence of alterations of supply voltage on control accuracy: 0.01%/10%
 Power consumption: approx. 20 VA

Case: 192 x 96 mm, DIN 43700
 installation depth approx. 214 mm
 material: glass-fiber reinforced NORYL, self-extinguishing, drip-proof, UL 94-V1.
 Type of protection: IP 50 DIN 40050 (front)
 IP 54, NEMA 4 on request.

Connections: connector/terminal board
 protection IP 20 DIN 40050
 insulation group C

Weight: Approx. 2000 g, 4.4 lbs.

Serial Interface: RS 232-C, RS 485
 Adjustable transfer form and rate

Dimensions: 96mm (3.79") H x 192mm (7.55") W x 214mm (8.42") Deep

Subject to change.

Parameters (Displayed codes & setable ranges)

Working plane / zone:

SP setpoint
 AL temp. alarm 1 value or AC current alarm value
 AH temp. alarm 2 value
 /h percentage output indication, heating
 /l percentage output indication, cooling

Parameter plane / zone:

b percentage output limits, heating 1 - 100%
 b. percentage output limits, cooling 1 - 100%
 P Prop. band (xp) — heating 0 - 100%
 d Rate — heating (derivative or TV) 0 - 200 sec.
 I Reset (also called Integral or Tn) 0 - 999 sec.

P. P (xp) — cooling 0 - 100%
 d. D (Tv) — cooling 0 - 200 sec.
 I. I (Tn) — cooling 0 - 999 sec.
 C Cycle time, heating 1 - 240 sec.
 C. Cycle time, cooling 1 - 240 sec.
 Sb setpoint limit (max. setable)
 A alarm configuration, Sec. 13.3 enter code on zone 1
 S2 second setpoint
 Co control zone on/off on/off
 OP configuration: additional functions Sec. 14.0
 r baud rate enter codes on zone 1
 F transmission format enter codes on zone 1
 S ramp setpoint ramp off — 99.9 deg/min

Ordering

Series 8000

