**Thermaxcouple & RTD Limit/Alarm Switch Module**

Two Form C (SPDT) Switches, Small Size, Mounts Easily on 35 mm DIN Rail

**Model 862E**

- Designed for hazardous location temperature control.
- It is the most dependable, smallest, lightest and most durable thermostat available.

**Applications**

- Oil refineries, petrochemical plants, pulp and paper mills, coal mines, grain elevators, hazardous waste water storage facilities, other hazardous locations where specific explosive gases or dusts are present.

Model 862E, Explosion-Proof, Heavy-Duty Thermostat

**Specifications**

- **Service:** Compatible gases.
- **Temperature Limit:** -49 to 176°F (-45 to 80°C).
- **Enclosure Rating:** Explosion-proof NEMA 7 & 9, Class I, Divisions 1 & 2, Groups C & D; Class II, Division 1, Groups E, F & G; Class II, Division 2, Groups F & G; Class III; Class I, Zones 1 & 2, Groups II A & II B.
- **Switch Type:** SPDT snap action switch.
- **Electrical Rating:** 22 A @ 480 VAC (res.), 1/2 HP @ 125 VAC, 1 HP @ 250 VAC.
- **Electrical Connection:** Screw terminal.
- **Conduit Connection:** 3/4” female NPT.
- **Set Point Adjustment:** External knob.
- **Adjustable Range:** 36 to 62°F (2 to 28°C).
- **Deadband:** 2.5°F (1.5°C).
- **Weight:** 2.1 lb (0.95 kg).
- **Approval:** UL and CSA.

CALL TO ORDER: U.S. Phone 219 879-8000 • U.K. Phone (+44) (0)1494-461707 • Australia Phone (+61) (0) 2 4272 2055

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**Series SC1290 & SC1490 Thermocouple Limit/Alarm Switch Modules**

These units mount easily on a standard 35mm DIN rail. Low voltage units are also available.

**Specifications**

- **Power Supply:** (SC units) 85 to 265 VDC/VAC 50 to 400 Hz (12-24 VDC, VAC 50-400 Hz for low voltage option, SC units).
- **Isolation:** 1500 V rms between outputs, input, and power.
- **Set Points:** Adjustable 0 to 100% of span.
- **Deadband:** Adjustable 0.25% to 100% of span.
- **Drift:** ±0.02%/°C typical ±0.05%/°C maximum.
- **Temperature Limits:** Operatingocus 32 to 131°F (0 to 55°C). (storage) -40 to +176°F (-40 to +80°C).
- **Input Impedance:** (SC units) 3 megohms. (SC1490) ≈ 0.02%/Ω.
- **Excitation Current:** (SC1490) Cu10Ω = 5mA; Pt 100Ω, Ni 10Ω, Ni 120Ω = 500µA; Pt 500Ω, NiFe 1000Ω = 100 µA, Pt 1000Ω = 50 µA.
- **Open Lead Protection:** (SC1490) upscale only.
- **Input Impedance:** (1290) 3 megohms.
- **Sensor Burnout Protection:** Selectable, upscale or downscale on 1290.
- **Relay Output:** Form C, SPDT, one per set point, 5A @ 250 VAC, resistive.
- **Latch Circuit Reset:** Automatic at power up. Manual with reset switch on front of module.
- **Indicators:** One dual color LED per set point. Red = relay on, green = relay off.
- **Wiring Terminals:** Screw driven compression type.

**Applications**

- Oil refineries, petrochemical plants, pulp and paper mills, coal mines, grain elevators, hazardous waste water storage facilities, other hazardous locations where specific explosive gases or dusts are present.

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**Explosion-Proof, Heavy-Duty Thermostat**

Line or Low Voltage, Heating or Cooling

**Model 862E**

- Explosion-proof, heavy-duty, the Model 862E Thermostat is designed for hazardous location temperature control.
- It is the most dependable, smallest, lightest and most durable thermostat available.

**Applications**

- Oil refineries, petrochemical plants, pulp and paper mills, coal mines, grain elevators, hazardous waste water storage facilities, other hazardous locations where specific explosive gases or dusts are present.

Model 862E, Explosion-Proof, Heavy-Duty Thermostat