

3129-01 EASY TEMPERATURE MONITOR

DESCRIPTION

The Amron International Model 3129-01 Easy Temperature Monitor is a panel mounted 48x24mm (1/32nd DIN) digital temperature meter displaying temperature in Fahrenheit or Centigrade. The Model 3129-01 is used with a RTD Temperature Probe Model 3129-RTD (not included). Unit is supplied ready for panel mounting and has a bezel and mounting bracket.

NOTE: 3129-RTD not included.

OVERVIEW

Features:

- LED Display
- Temperature Range of 32°F to 140°F (0°C to 60°C)
- Centigrade Display can be converted at time of order upon request
- AC Powered, 100 – 240 Vac, 50 – 60 Hz

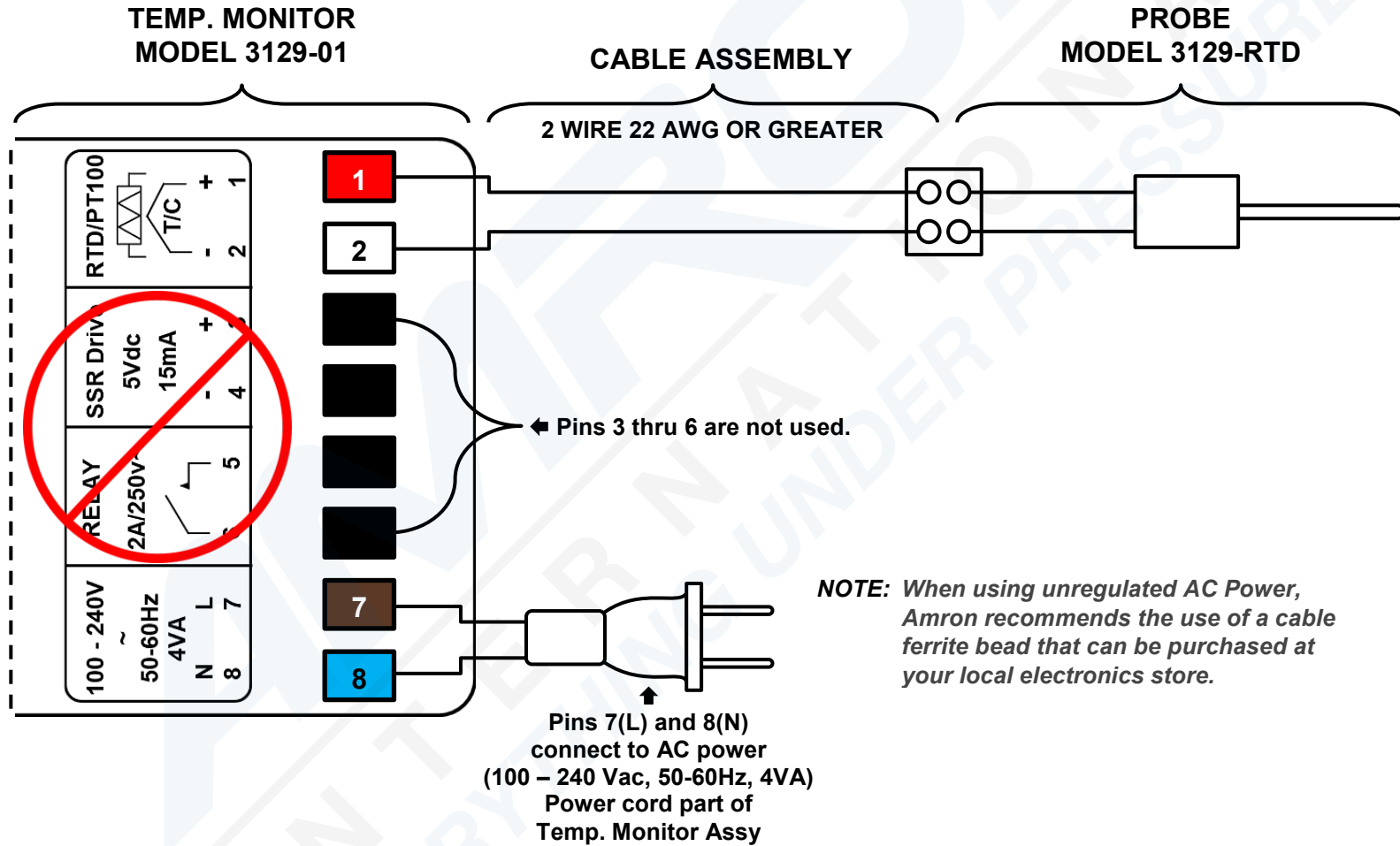
Panel Cut-out Dimensions:

- 1/32nd DIN panel cut-out size
- 45.0mm +0.6mm -0.0mm (1.77in. +0.02in. -0.0in.) wide
- 22.2mm +0.3mm -0.0mm (0.87in. +0.01in. -0.0in.) high
- 9.5mm (0.374in) maximum panel thickness
- 116.2mm (4.57in.) required depth from front panel to back of monitor



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ELECTRICAL AND MOUNTING DIAGRAM



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DATA SHEET

Thermocouple

9 types
Standards: IPTS/68/DIN 43710
CJC rejection: 20:1 (0.05°C) typical
External resistance: 100Ω maximum

Resistance thermometer

RTD-2/Pt100 2 wire
Standards: DIN 43760
(100Ω 0°C/138.5Ω 100°C Pt)
Bulb current: 0.2mA maximum

Linear process inputs

mV range: 0 to 50mV

Applicable to all inputs SM = sensor maximum

Calibration accuracy: $\pm 0.25\%SM \pm 1^\circ C$
Sampling frequency: input 10Hz, CJC 2 sec.
Common mode rejection: Negligible effect up to 140dB,
240V, 50-60Hz
Series mode rejection: 60dB, 50-60Hz
Temperature coefficient: 150ppm/°C SM
Reference conditions: 22°C $\pm 2^\circ C$, rated voltage after 15
minutes settling time

Output devices

SSd/SSd1/SSd2: solid state relay driver: To switch a
remote SSR 5Vdc +0/-15% 15mA
non-isolated
Miniature power relay: form A/SPST contacts (AgCdO)
rLY and rLY1: 2A/250ac resistive load
rLY2: 1A/250ac resistive load

General

Displays: Main, 4 Digits, high brightness
green LED. 10mm (0.4") high.
Digital range -199 to 9999
Hi-res mode -199.9 to 999.9

LED output indicators – flashing
SP1 square, green; SP2 round, red

Keypad: 3 elastomeric buttons

Environmental

Humidity: Max 80%
Altitude: up to 2000M
Installation: Categories II and III
Pollution: Degree II
Protection: NEMA 4X, IP66
EMC emission: EN50081-1 FCC Rules 15 subpart J
Class A
EMC immunity: EN50082-2
Ambient: 0-50°C (32-130°F)
Mouldings: flame retardant polycarbonate
Weight: 110g (3.9 oz.)