Bently Nevada 3500 Series Service Manual

3500/60-01-01

1. Description

3500/60-01-01

3. Product Information

3500/60-01-01 | Bently Nevada | Temperature Monitor

Manufacturer : Bently Nevada

Product No. :3500/60-01-01

Product Type : Temperature Monitor

Made in U.S.A

Ordering Information

3500/60-AA-BB

A:I/O Module Type

0 1= RTD/TC Non-isolated I/O Module Internal Terminations

B:Agency Approval Option

0 1 = CSA/NRTL/C (Class 1, Div 2)

Inputs

Signal Accepts from 1 to 6 RTD or TC transducer signals.

Input Impedance 10 MΩ for each lead input.

Power Consumption

3500/60 Nominal consumption of 7 watts.

Tranducers

TCs

Type E -100 °C to +1000 °C, (-148 °F to +1832 °F).

Type J -18 °C to +760 °C, (+0 °F to +1400 °F).

Type K -18 °C to +1370 °C, (+0 °F to +2498 °F)

.Type T -160 °C to +400 °C, (-256 °F to +752 °F).

100Ω 3-wire & 4-wire platinum RTD (alpha= 0.00385) -200° C to +850° C (-328 °F to +1562 °F).

With external barriers: -50 °C to +850 °C (-122 °F to +1562 °F).

100Ω 3-wire & 4-wire platinum RTD (alpha = 0.00392)

-200 °C to +700 °C (-328 °F to +1292 °F).

With external barriers: -50 °C to +260 °C (-122 °F to + 1292 °F).

120Ω 3-wire & 4-wire nickel RTD -80 °C to +260 °C (-112 °F to +500 °F).

With external barriers: -50 °C to +260 °C (-122 °F to + 500 °F).

10Ω 3-wire & 4-wire copper RTD -100 °C to +260 °C, (-148 °F to +500 °F).

With external barriers: -50 °C to +260 °C (-122 °F to +500 °F).

Outputs

Front Panel LEDs

OK LED Indicates when the Temperature Monitor is operating properly.

TX/RX LED Indicates then the Temperature Monitor is communicating with other modules in the 3500 rack.

Bypass LED Indicates when the Temperature Monitor is in Bypass Mode.

RTD Current Source Value 925 ±15 µA @ 25° C per transducer (single supply for the 4-wire RTD and two supplies for the 3-wire).

Recorder +4 to +20 mA. Values are proportional to monitor full-scale. Individual recorder values are provided for each channel. Monitor operation is unaffected by short circuits on recorder outputs.

Environmental Limits

Operating Temprature

-30°C to +65°C (-22°F to +150

°F) when used with Internal/External Termination

I/O Modules

0°C to +65 °C (32 °F to +150 °F)

when used with Internal Barrier

I/O Modules (Internal

Termination)

Storage

Temperature

-40°C to +85°C (-40°F to

+185°F)

Physical

Monitor Module

Dimensions

(Height x Width xDepth)

241.3 mm x 24.4 mm x

241.8 mm

(9.50 in x 0.96 in x 9.52 in)

Weight 0.91 kg (2.0 lb)

I/O Modules

Dimensions

(Height x Width xDepth)

241.3 mm x 24.4 mm x 99.1mm

(9.50 in x 0.96 in x 3.90 in)

Weight 0.45 kg (1.0 lb)

I/O Modules (internal barrier)

Dimensions

(Height x Width xDepth)

241.3 mm x 24.4 mm x 163.1

mm

(9.50 in x 0.96 in x 6.42 in)

Weight 0.46 kg (1.01 lb)

Rack Space Requirements

Monitor

Module

1 full-height front slot

I/O Modules 1 full-height rear slot