

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.

Transducers

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 Temperature

-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

