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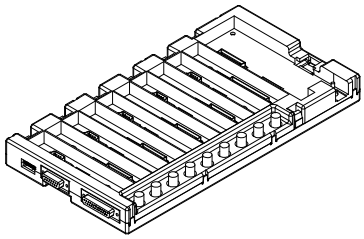
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Find the *GE / Bently Nevada 1701/05* at our website: *Click HERE*

# 1701/05 FieldMonitor* Terminal Base

## Bently Nevada* Asset Condition Monitoring



## Description

The 1701/05 Terminal Base is the mounting platform for the FieldMonitor* system for applications where transducers are installed in non-hazardous, Division 2, or Zone 2 areas, or where external safety barriers are used. This terminal base provides the following:

- 1 slot for a power supply
- 4 slots for dual-channel vibration monitors
- 4 slots for internal Proximitor* modules or transducer I/O modules
- 1 slot for an internal Proximitor module or transducer I/O module for a Keyphasor* input (single input to channel A). A separate terminal base is needed for each shaft rotative speed as each terminal base can accommodate only one Keyphasor transducer.
- 1 slot for the 1701/22 FieldMonitor Management Interface Module
- I/O terminations for up to 9 externally-wired transducers
- Flexbus connections for physical connection of the terminal base to other Allen-Bradley® 1794 Flex™ I/O products or a network adapter
- Individual buffered dynamic signal connectors for all channels (including Keyphasor transducer)
- A buffered dynamic signal port for multi-channel cable connection

Note: An optional cable assembly (p/n 138925) is available when buffered dynamic outputs need to be routed to an external patch panel, or any other device requiring dynamic signals.



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## Specifications

### 1701/05 Terminal Base

| Inputs/Outputs | Quantity |
|---|---|
| 16-pin female Flexbus connector for connection directly to another Flex module | 1 |
| 16-pin male Flexbus connector for connection directly to Flexbus using Flex extender cable | 1 |
| 25-pin DSUB. Buffered dynamic output signals | 1 |
| Coaxial connectors for Buffered dynamic output signals | 8 |
| Coaxial connector for Buffered Keyphasor output signal | 1 |
| 2 conductor Euro terminal for Buffered Keyphasor output signal | 1 |
| 2 conductor Euro terminal for primary power input +24Vdc, + and - connections, 14 to 26 AWG. | 1 |
| 8 conductor Euro terminals for transducer field wiring for 8 monitor channels, 18 to 26 AWG. | 4 |
| 8 conductor Euro terminal for Keyphasor field wiring for one channel, 18 to 26 AWG. | 1 |
| 15-pin DSUB. Synchronous Serial Static Port. | 1 |
| Wiring stud for instrument earth connection | 1 |

### Module Capacity

| FieldMonitor Module | 1701/05 Capacity |
|---|---|
| Power Supply | 1 |
| 2-channel Transducer I/O Module or Internal Proximitor Module for Keyphasor transducer (only channel A takes Keyphasor signal input) | 1 |
| 1701/22 FieldMonitor Management Interface Module | 1 |
| 2-channel monitor module | Up to 4 |
| 2-channel Transducer I/O Modules or Internal Proximitor Modules (one per monitor) | Up to 4 |

### Physical

Dimensions (L x W x H) (modules installed):

33.65 cm x 17.27 cm x 12.7 cm (13.25 in x 6.8 in x 5 in)

Weight (no modules installed):

1.1 kg (2.4 lb.)

Mounting:

Bulkhead, four #8 bolts.

### Environmental Limits

Operating Temperature:

-20 °C to + 70 °C (-4 °F to +158 °F)

Storage Temperature:

-40 °C to + 85 °C (-40 °F to +185 °F)

Operating Humidity:

0% to 95% non-condensing relative humidity

Storage Humidity:

0% to 95% non-condensing relative humidity



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## Hazardous Area Approvals

North America

Ex ia IIC: Class I, Zone 0:

Class I, Div 1, Groups A, B, C, D

Ex nA IIC T4

Class I, Zone 2

Class I, Div 2, Groups A, B, C, D

T4 @ -30°C ≤ Ta ≤ +70°C

When installed per drawing number 139255

European/ATEX

 II 3G Ex nA [L] IIC T4 Gc

T4 @ -30°C ≤ Ta ≤ +70°C

When installed per drawing number 139255

Brazil

Ex nA [nL] IIC T4 Gc

T4 @ -30°C ≤ Ta ≤ +70°C

## Ordering Information

At least one terminal base is needed for each FieldMonitor system.

1701/05-01

Terminal Base

### Accessories

139193-01:

Blank Slot Cover Kit. Used to cover unused monitor or transducer I/O slots in the terminal base.

FieldMonitor Buffered Dynamic Cable

138925-AAA-BB

| Option | Description | |
|---|---|---|
| A: | Cable Length | |
| | 005 | 5 ft (1.5 m) |
| | 007 | 7 ft (2.1 m) |
| | 010 | 10 ft (3 m) |
| | 025 | 25 ft (7.6 m) |
| | 050 | 50 ft (15.2 m) |
| | 100 | 100 ft (30.5 m) |
| B: | Cable Assembly | |
| | 00 | Unassembled |
| | 02 | Assembled |



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## Dimensional Drawing

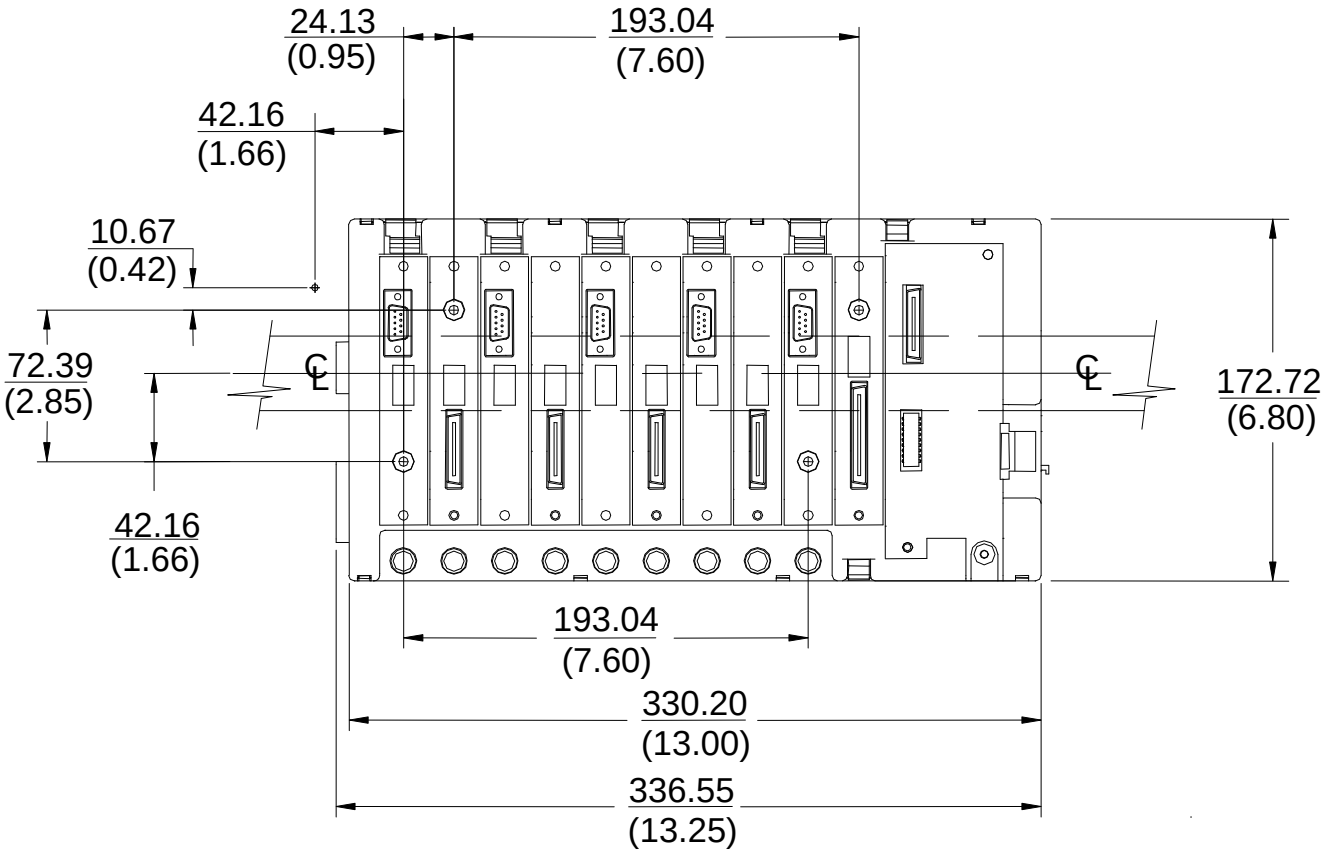



Figure 1: 1701/05 Dimensions

Dimensions are in millimetres (inches)



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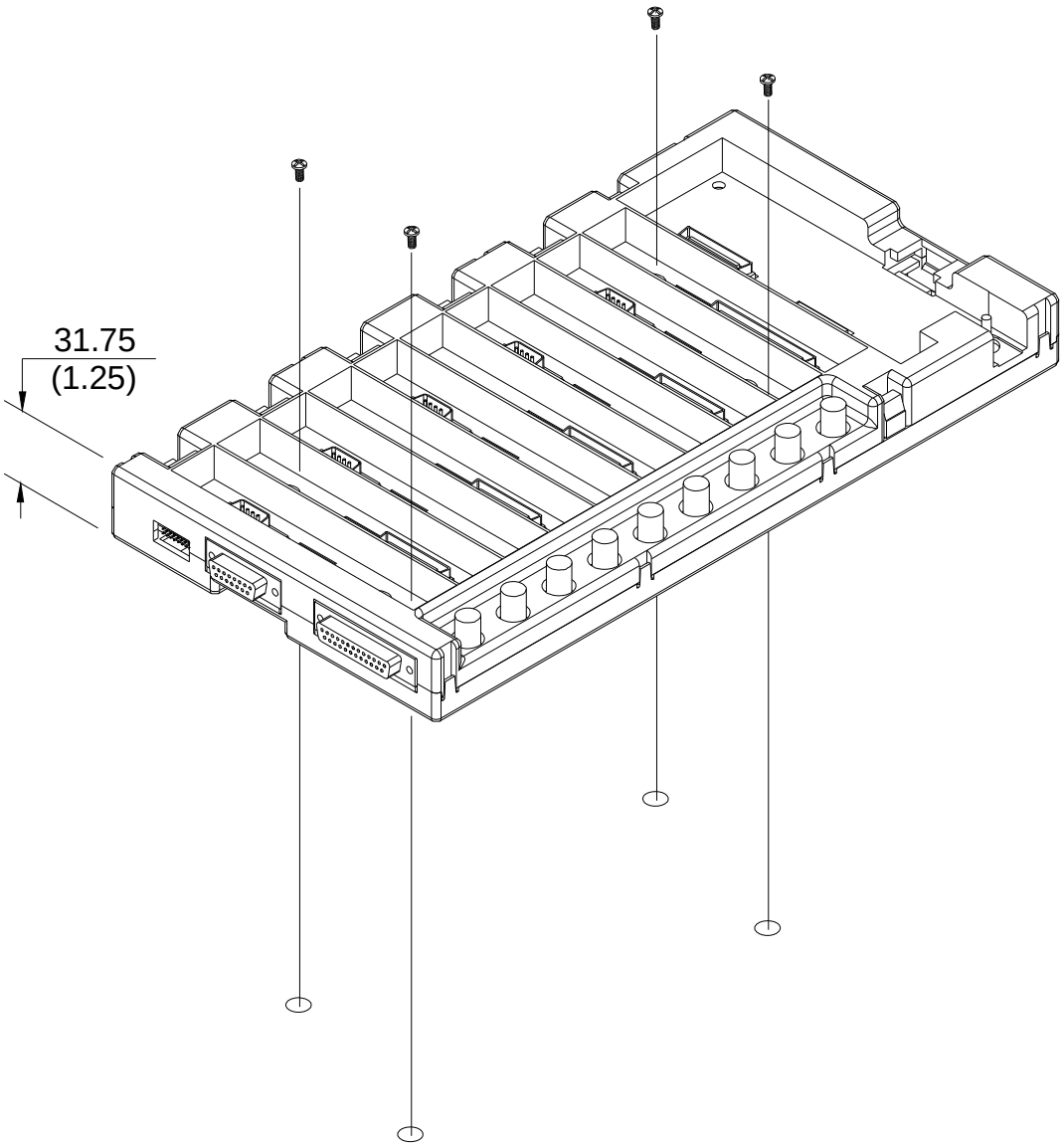



Figure 2: 1701/05 Hole pattern diagram and height dimension

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