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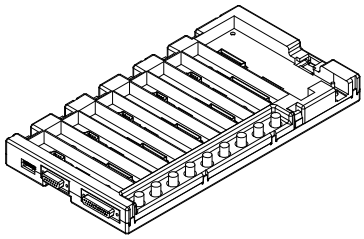
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1701/05 FieldMonitor* Terminal Base

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

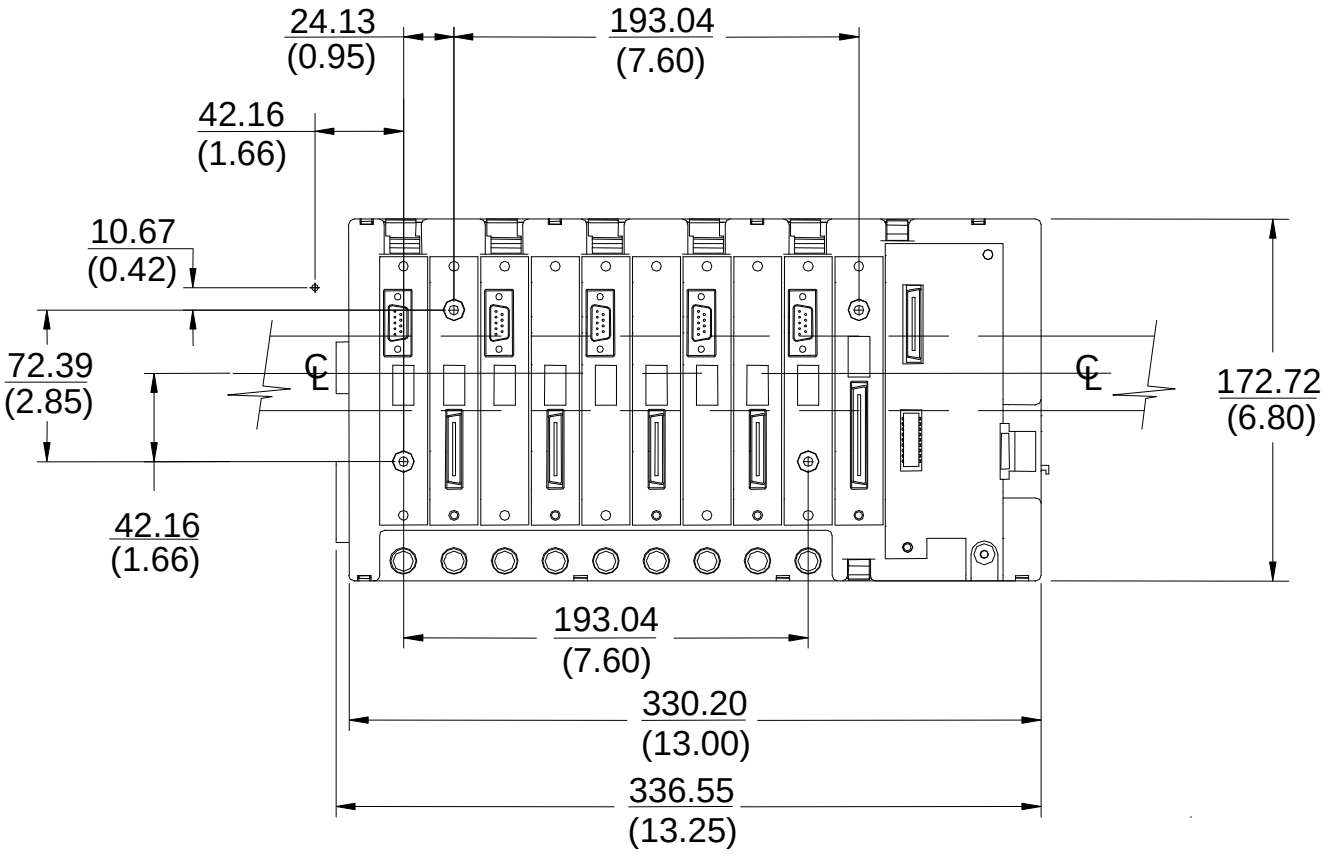


Figure 1: 1701/05 Dimensions

Dimensions are in millimetres (inches)

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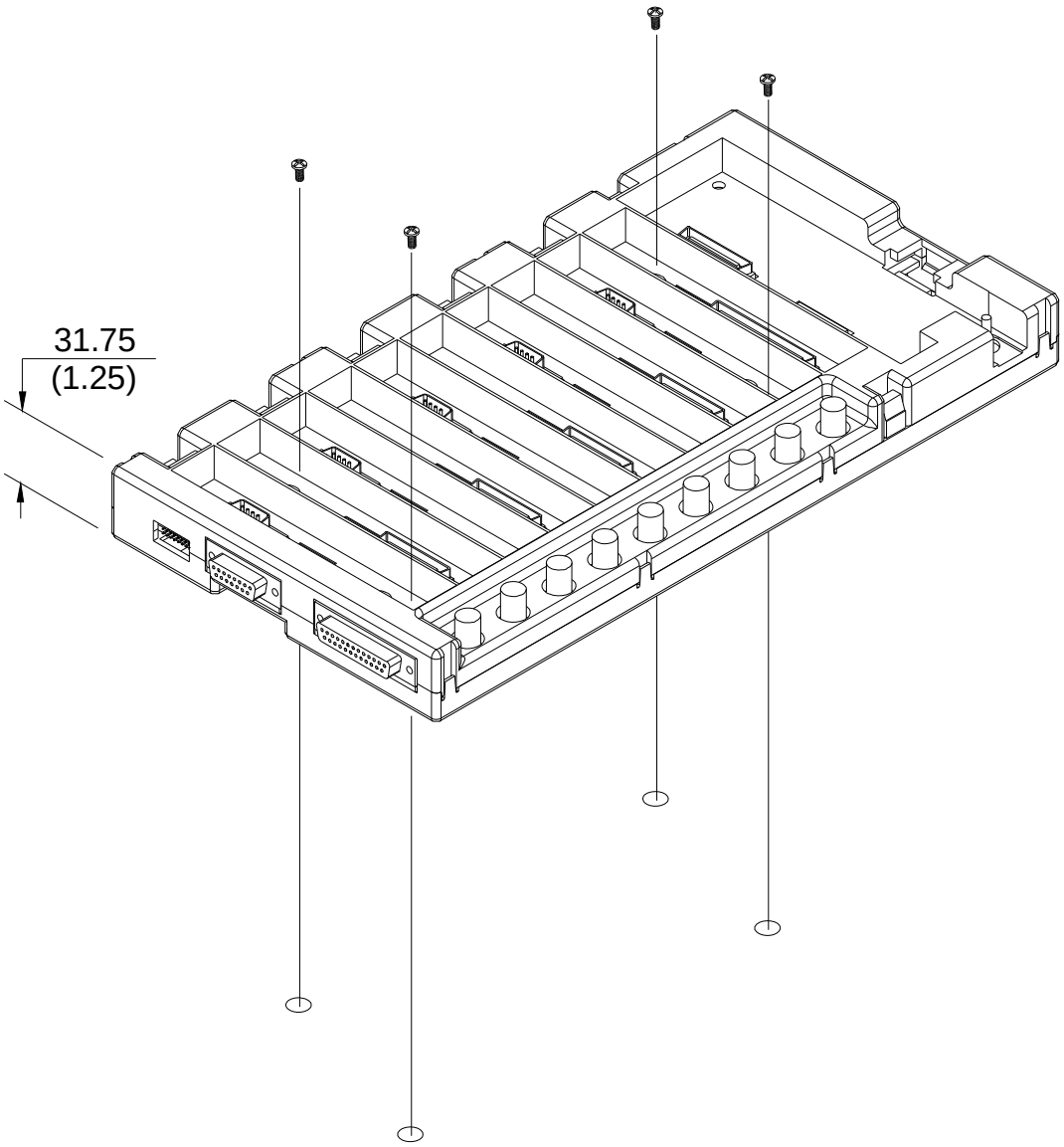


Figure 2: 1701/05 Hole pattern diagram and height dimension

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