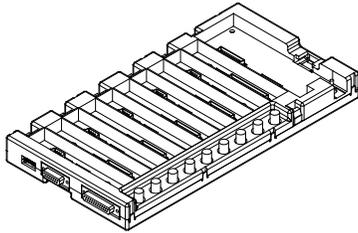


# 1701/05 FieldMonitor\* Terminal Base



## 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 Proximator\* modules or transducer I/O modules
- 1 slot for an internal Proximator 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.



## 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

FieldMonitor Module	1701/05 Capacity
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 @  $-30^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$   
When installed per drawing  
number 139255

### European/ATEX

 II 3G Ex nA [L] IIC T4 Gc  
T4 @  $-30^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$   
When installed per drawing  
number 139255

### Brazil

DNV 12.0017 X  
Ex nA [ic] IIC T4 Gc

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## 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.

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## FieldMonitor Buffered Dynamic Cable

### 138925-AAA-BB

#### Option Description

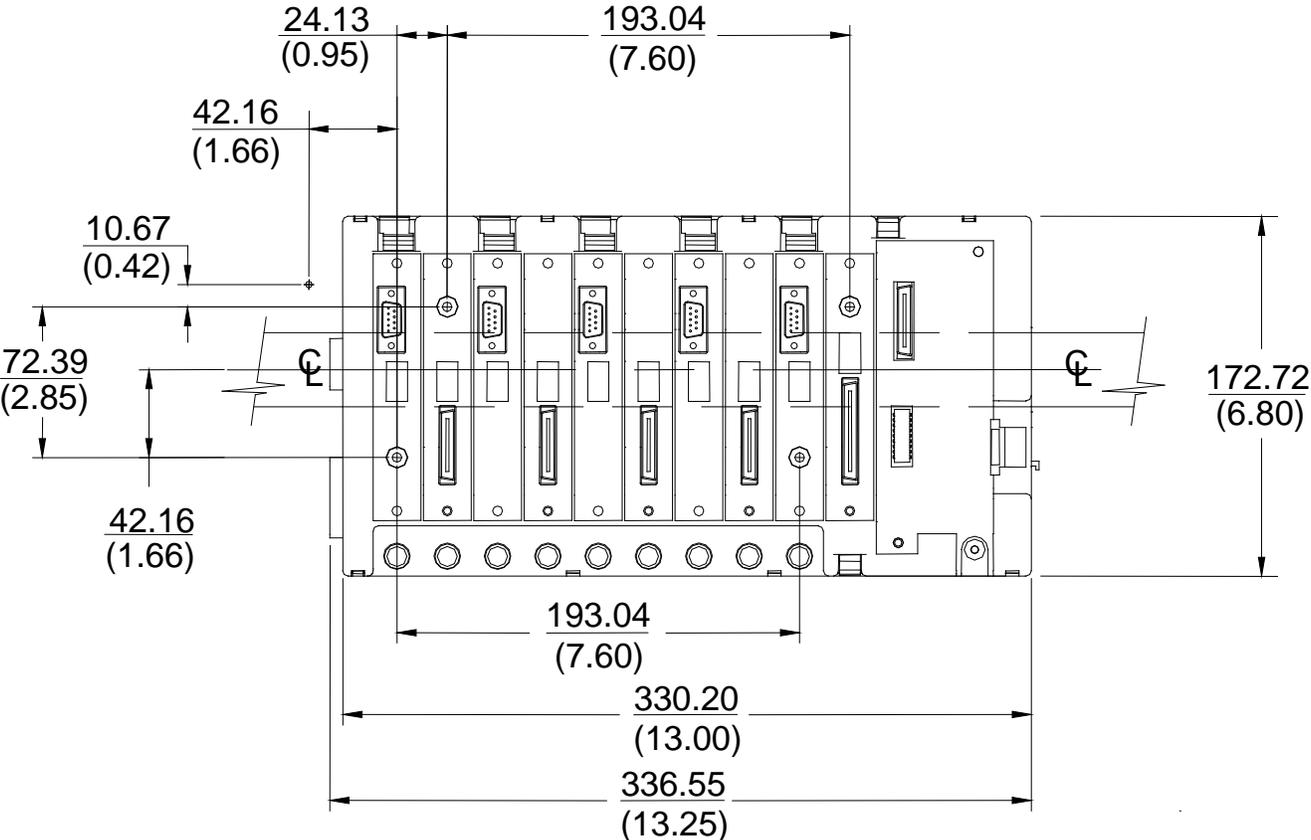
##### A: Cable Length

<b>005</b>	5 ft (1.5 m)
<b>007</b>	7 ft (2.1 m)
<b>010</b>	10 ft (3 m)
<b>025</b>	25 ft (7.6 m)
<b>050</b>	50 ft (15.2 m)
<b>100</b>	100 ft (30.5 m)

##### B: Cable Assembly

<b>00</b>	Unassembled
<b>02</b>	Assembled

# Dimensional Drawing



**Figure 1: 1701/05 Dimensions**

Dimensions are in millimetres (inches)

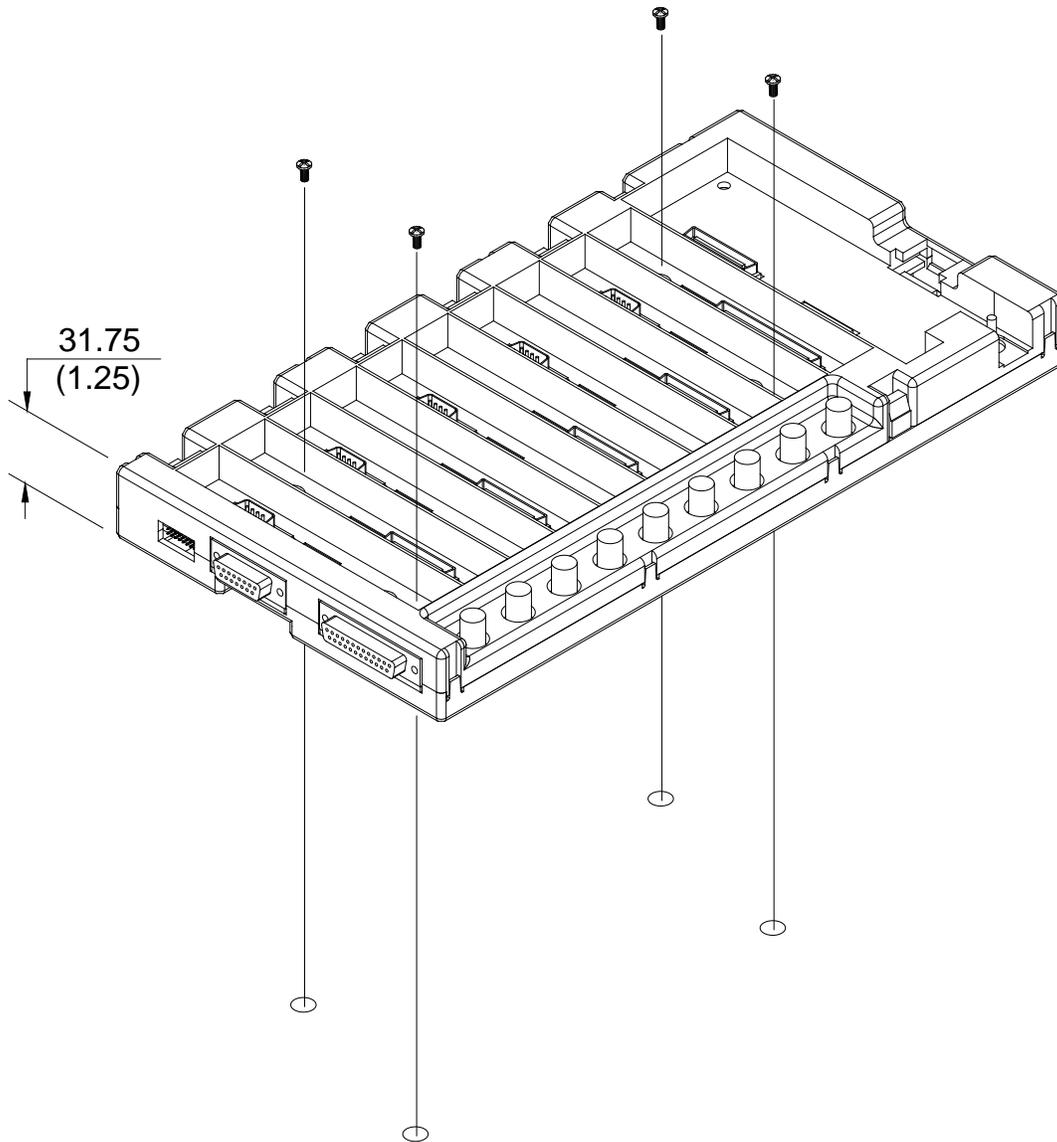


Figure 2: 1701/05 Hole pattern diagram and height dimension