



For GPD 333  
Adjustable Frequency Drives

# SMART DISTRIBUTED SYSTEM SATELLITE

## MODEL CM057

### NOTE

This option may have been installed by the factory. However, certain steps can only be completed at the installation site. Therefore, review and then perform those steps which will complete the installation process.

### CAUTION

**Before installing this option, a TECHNICALLY QUALIFIED INDIVIDUAL who is familiar with this type of equipment and the hazards involved, should READ THIS ENTIRE INSTRUCTION SHEET.**

### CAUTION

**The Smart Distributed System Satellite board is an electrostatic sensitive device. Personnel must use approved methods for handling this type of equipment.**

### WARNING

**HAZARDOUS VOLTAGE CAN CAUSE SEVERE INJURY OR DEATH. ENSURE ALL POWER SOURCES FEEDING DRIVE ARE LOCKED IN THE "OFF" POSITION BEFORE INSTALLING THIS OPTION.**

### INTRODUCTION

The Smart Distributed System network is a low-cost communications network used to connect industrial devices (such as limit switches, photoelectric switches, valve manifolds, motor starters, smart motor controllers, operator interfaces, and variable frequency drives) as well as control devices (such as programmable controllers and computers).

The Smart Distributed System network can accommodate up to 64 nodes per network. A GPD 333 appears as one node on the network. A Smart Distributed System Satellite board (MagneTek part no. CM057) must be installed into each GPD 333 drive that will be communicating on the Smart Distributed System network. The GPD 333 Smart Distributed System Satellite resides on the front of the drive in the location normally used by the status plate or the Digital Operator. The Satellite board is powered from both the 24VDC Smart Distributed System network power and the GPD 333 drive that it is connected to.

CHANGE RECORD			

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SHEET NO. 1 OF 3  
REL. 2/21/97 (m-df)

## SPECIFICATIONS

<b>GPD 333 Smart Distributed System Satellite</b>	
Ambient Temperature	-10 to +40 degrees C (+14 to +104 degrees F)
Storage Temperature	-20 to +60 degrees C (-4 to +140 degrees F)
Relative Humidity	90% noncondensing
Altitude	3300 feet
Vibration	1G at less than 20 Hz, 0.2 G at 20-50 Hz
Input Power	Voltage: 11-25 VAC Current: 40 mA

## SYSTEM CONNECTIVITY

The table below shows the Connector Pinout for the GPD 333 Smart Distributed System Satellite. For information on Smart Distributed System network topology, maximum cable distance, cable specifications, and network termination, refer to the GPD 333 Smart Distributed System Satellite technical manual, TM 4564.

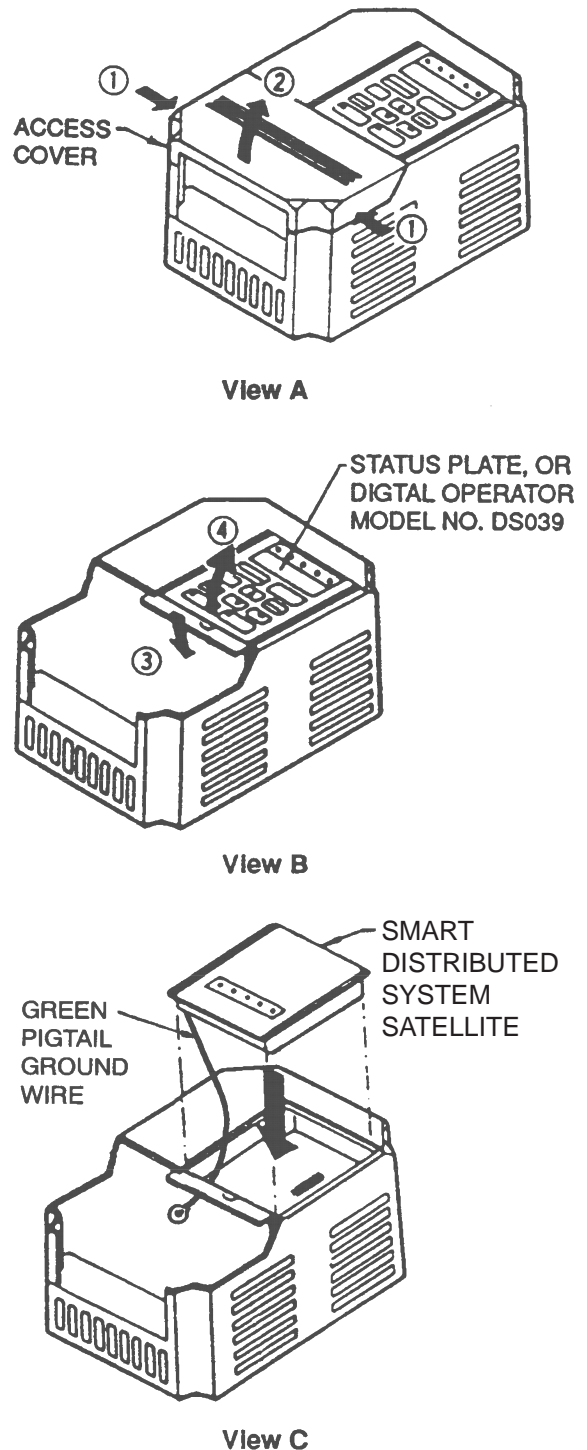
<b>Pin</b>	<b>Label</b>	<b>Definition</b>	<b>Color</b>
1	SH	Shield/Drain Connection	Bare
2	CL	CAN Data Signal Low	White
3	CH	CAN Data Signal High	Black
4	V-	Common	Blue
5	V+	+24 VDC	Brown

## INSTALLATION

The Smart Distributed System Satellite installs directly on the GPD 333 drive in place of the standard status plate or optional Digital Operator display (see Figure 1).

1. Disconnect all electrical power to the GPD 333.
2. Remove the GPD 333 access cover located on the bottom front of the drive (View A).
3. Check to ensure that the CHARGE indicator lamp (located inside the GPD 333 on the bottom left corner) is not lit.
4. Verify that voltage has been disconnected by using a voltmeter to check for power at incoming power terminals (L1, L2, L3).
5. Gently press down on the plastic terminal board label strip located just below the status plate or Digital Operator (View B). Carefully lift upward on the bottom edge of the status plate (or Digital Operator) until the connector located on its back is released from the drive.
6. Route the green pigtail ground wire of the Satellite board through the rectangular opening in the drive chassis located in the area from which the status plate (or Digital Operator) was removed. This ground wire should be connected to one of the drive ground terminals marked 'G'. The two drive ground terminals are located at the lower right and lower left corners of the GPD 333.
7. Install the Satellite board in the mounting recess (View C).
8. Replace the GPD 333 access cover.
9. Insert the Smart Distributed System network connector into the receptacle on the front of the Satellite.

This completes installation of this option.



**Figure 1 Mounting Smart Distributed System Satellite**