



GE VERNOVA

## Multilin EPM 4600 Meter Displays

DIS3500/DIS5700



### Quick Start Guide

Product version: 1.0x

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EPM 4600 Display DIS3500/DIS5700 Instruction Manual for version 1.0x.

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Part number: 1601-0500-A1 (February 2014)

# EPM 4600 Display DIS3500/DIS5700

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# EPM 4600 Display DIS3500/DIS5700

## Chapter 1: Introduction

### **NOTICE**

For further product details and safety considerations, refer to the *EPM 4600 Instruction Manual*, part number 1601-0296.

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## GENERAL SAFETY PRECAUTIONS

### **CAUTION**

Failure to observe and follow the instructions provided in the equipment manual(s) could cause irreversible damage to the equipment and could lead to property damage, personal injury and/or death.

Before attempting to use the equipment, it is important that all danger and caution indicators are reviewed.

If the equipment is used in a manner not specified by the manufacturer or functions abnormally, proceed with caution. Otherwise, the protection provided by the equipment may be impaired and can result in Impaired operation and injury.

**Caution: Hazardous voltages can cause shock, burns or death.**

Installation/service personnel must be familiar with general device test practices, electrical awareness and safety precautions must be followed.

Before performing visual inspections, tests, or periodic maintenance on this device or associated circuits, isolate or disconnect all hazardous live circuits and sources of electric power.

All recommended equipment that should be grounded and must have a reliable and un-compromised grounding path for safety purposes, protection against electromagnetic interference and proper device operation.

Equipment grounds should be bonded together and connected to the facility's main ground system for primary power.

Keep all ground leads as short as possible.

At all times, equipment ground terminal must be grounded during device operation and service.

In addition to the safety precautions mentioned all electrical connections made must respect the applicable local jurisdiction electrical code.

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## Safety symbols and definitions

Before attempting to install or use the device, review all safety indicators in this document to help prevent injury, equipment damage, or downtime.

The following safety and equipment symbols are used in this document.



Indicates a hazardous situation which, if not avoided, will result in death or serious injury.



Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



Indicates practices not related to personal injury.

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## For further assistance

For product support, contact the information and call center as follows. Have your software key(s) ready.

GE Vernova Digital  
Energy 650 Markland  
Street Markham,  
Ontario Canada L6C  
0M1

Worldwide telephone: +1 905 927 7070

Europe/Middle East/Africa telephone: +34 94 485 88 54

North America toll-free: 1 877 547 8629

Fax: +1 905 927 5098

Worldwide e-mail: [multilin.tech@governova.com](mailto:multilin.tech@governova.com)

Europe e-mail: [multilin.tech.euro@governova.com](mailto:multilin.tech.euro@governova.com)

Website: <https://www.governova.com/grid-solutions/automation/protection-control-metering>

FOR FURTHER ASSISTANCE

INTRODUCTION

# EPM 4600 Display DIS3500/DIS5700

## Chapter 2: Product description

The optional display for the EPM 4600 Metering System lets you view meter readings remotely. The display come pre-configured to match the EPM 4600 Meter default factory settings, but you can change the default settings, such as the IP address, if necessary. There are two available display models:

- The DIS3500 display has a 3.5" screen.
- The DIS5700 display has a 5.7" screen.

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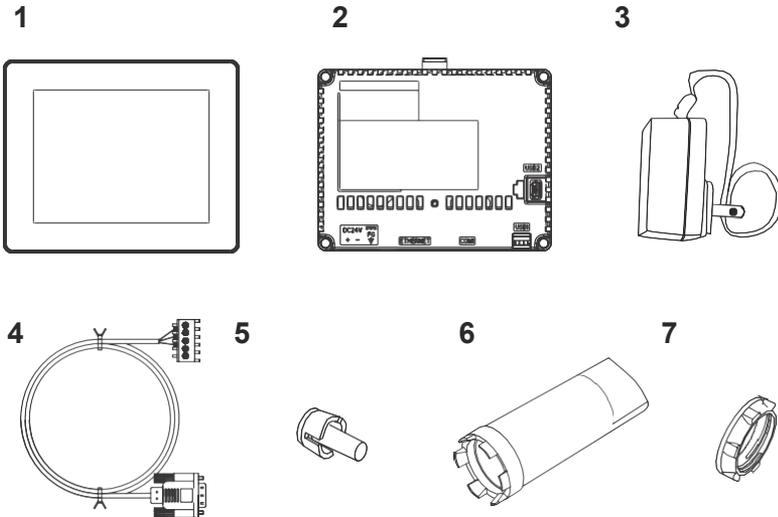
## Contents of Display Kit

1. Display
2. Rear Module
3. Power Supply
4. RS485 Serial Cable (10 feet)

### Mounting Hardware:

5. Anti-rotation tee
6. Socket wrench
7. Installation nut, attached to the back of the display

Figure 1: Contents of Display Kit



# Display Dimensions

Figure 2: DIS3500 Dimensions

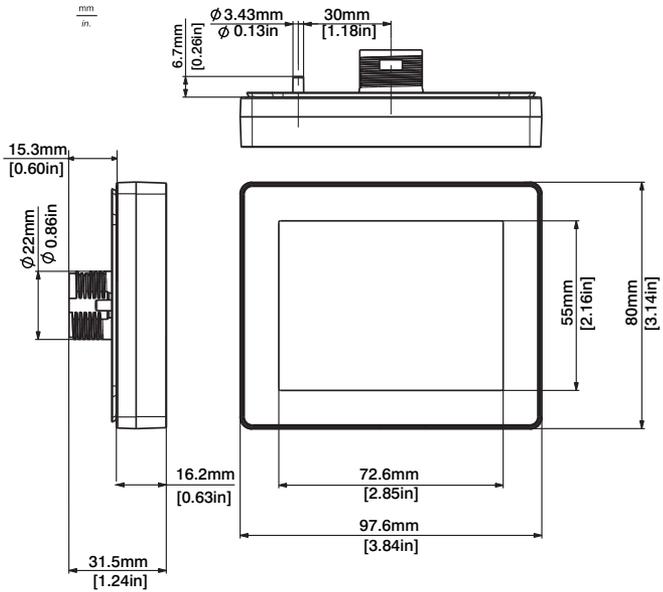


Figure 3: DIS5700 Dimensions

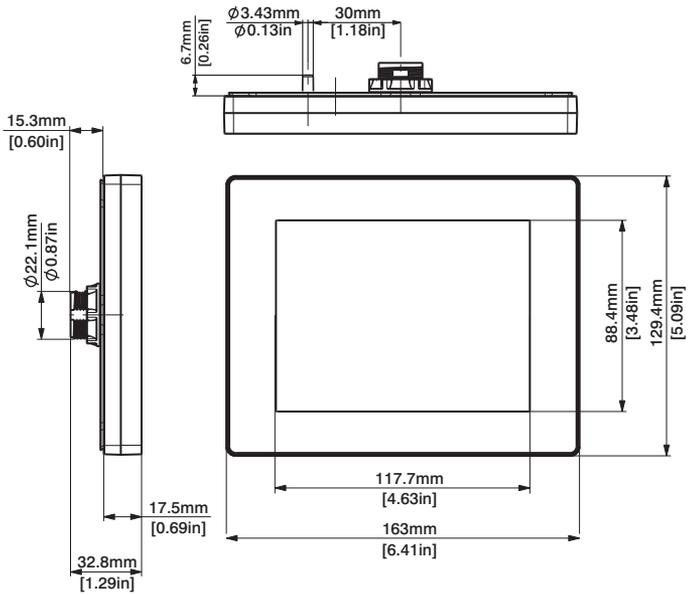
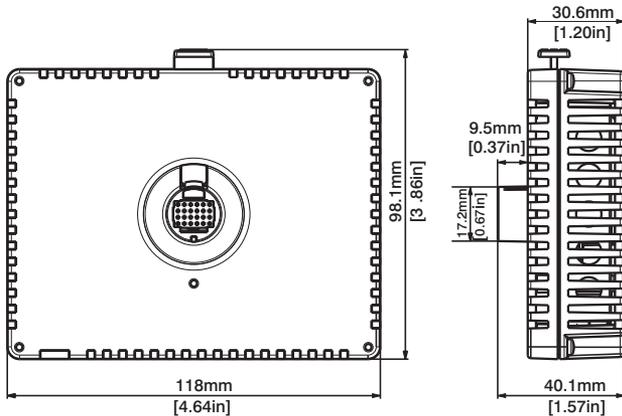


Figure 4: DIS3500/DIS5700 Back Dimensions



# EPM 4600 Display DIS3500/DIS5700

## Chapter 3: Installation and Configuration

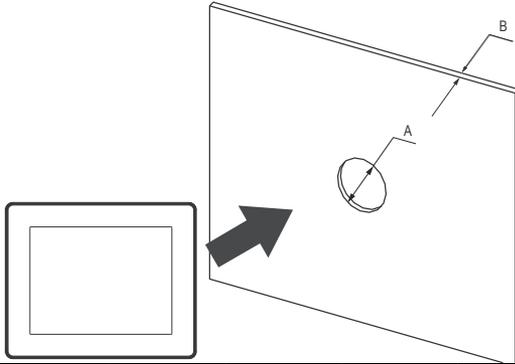
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### Mechanical Installation

Mount the unit in an enclosure that provides a clean, dry, and controlled environment (IP65f enclosure or UL508 4x, if indoors).

1. Create a panel cutout based on the following information, and install the display from the front. You can use a tee insert (included with the display) to stop display rotation when you apply torque during installation. With the tee option, the rotating torque is 6Nm/53.10 in-lb. Without the tee option the rotating torque is 2.5Nm/ 22.12 in-lb.

**Figure 5: Cutout Dimensions without Tee Insert**



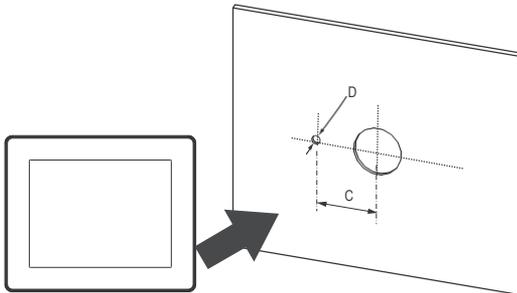
Unit	A (mm)	A (in.)	B (mm) (1)	B (in.) (1)	B (mm) (2)	B (in.) (2)
DIS3500	22.50	0.88	1.5 to 6	0.06 to 0.23	3 to 6	0.11 to 0.23
DIS5700	22.20	0.87	1.5 to 6	0.06 to 0.23	3 to 6	0.11 to 0.23

The Material of the panel

(1) Steel sheet

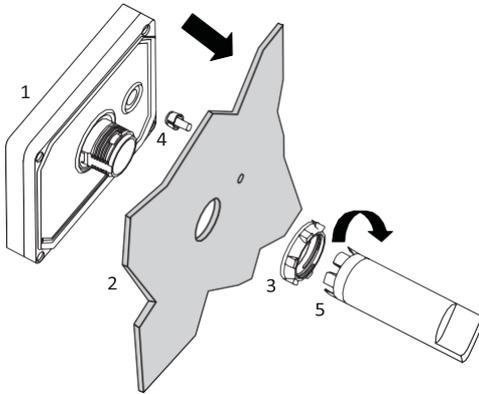
(2) Fiberglass (minimum GF30)

**Figure 6: Cutout Dimensions with Tee Insert**



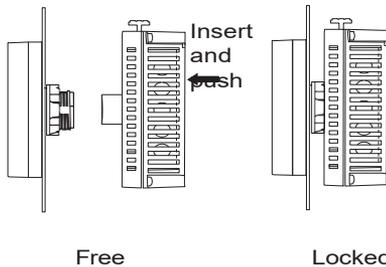
Unit	C (mm)	C (in.)	D (mm)	D (in.)
DIS3500	30.00	1.18	4.00	0.15
DIS5700	29.80	1.173	3.80	0.143

2. Insert the display module (along with the tee insert if you are using it) into the panel hole.
3. Screw the nut using the socket wrench with a torque between 1.2 and 2 Nm/10.62 and 17.70 in-lb.



- 1: Display Module (front)
- 2: Panel with Cutout
- 3: Display Installation Nut
- 4: Anti-Rotation Tee
- 5: Wrench

4. Insert and push the rear module until it locks into place.



**NOTE:** To remove the rear module, press the yellow button on the top of the display to unlock it and pull the rear module away from the display module.

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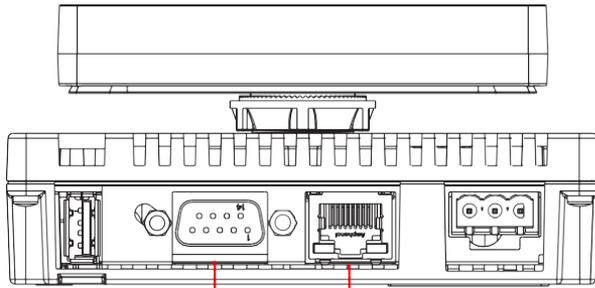
## Configuring Communications

You can connect to the EPM 4600 metering system through either the Com 3 RS485 port or the optional Com 1 RJ45 Ethernet port. The display automatically detects the connection in use. Note that both the EPM 4600 unit and the display need to have specific settings to enable communication between them. The display is pre-programmed to communicate with the EPM 4600 default IP address and RS485 Com port settings.

### **NOTICE**

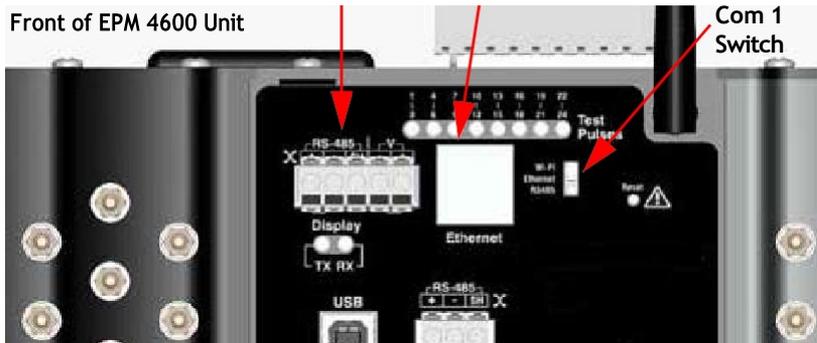
If you have changed the EPM 4600 IP address or if you receive a communication error message, follow the instructions in Chapter 10 of the *EPM 4600 Instruction Manual*.

**Bottom of Display**



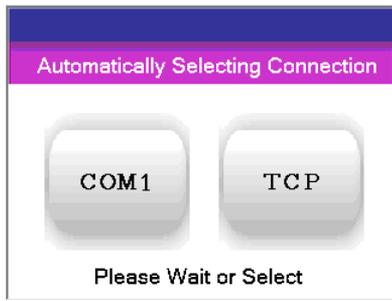
**RS485 Port    RJ45 Port**

**Front of EPM 4600 Unit**



- To connect via RS485, use the RS485 serial cable to connect from the RS485 port on the display to the EPM 4600 Com 3 port.
- To connect via Ethernet, use an Ethernet cable to connect from the display's RJ45 port to the EPM 4600 Com 1 RJ45 port. Also, be sure the Com 1 Switch is set to Ethernet/WiFi.

While the EPM 4600 unit and the display are beginning to communicate, you will see the screen shown.



After a basic information screen is shown, you will see one of the Home screens below (either the EPM 4600-T with 8 three phase circuits, or the EPM 4600-S with 24 single phase circuits).

Home			
Choose Meter			
1	2	3	4
5	6	7	8

Home							
Choose Meter							
1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24

Touch a meter number to begin viewing the screens for the meter. See the *EPM 4600 Instruction Manual* for further details.