

Chapter 1

DTAM Plus Overview

Product Options and Accessories

The tables below lists the options that are available for the DTAM Plus.

Versions with a Comm Port

Catalog Number	Description ^①
2707-L8P1	LCD Display, 8K Memory, P1 Power Supply
2707-L8P2	LCD Display, 8K Memory, P2 Power Supply
2707-L40P1	LCD Display, 40K Memory, Printer Port, Real Time Clock, P1 Power Supply
2707-L40P2	LCD Display, 40K Memory, Printer Port, Real Time Clock, P2 Power Supply
2707-V40P1	VFD Display, 40K Memory, Printer Port, Real Time Clock, P1 Power Supply
2707-V40P2	VFD Display, 40K Memory, Printer Port, Real Time Clock, P2 Power Supply
2707-V40P2N	VFD Display, 40K Memory, Printer Port, Real Time Clock, P2 Power Supply NEMA Type 4X Rating (Indoor Use Only)

^① See Specifications for voltage ranges of P1 and P2 Power Supplies.

Remote I/O Versions

Catalog Number	Description ^①
2707-L8P1R	LCD Display, 8K Memory, P1 Power Supply ^②
2707-L8P2R	LCD Display, 8K Memory, P2 Power Supply ^②
2707-L40P1R	LCD Display, 40K Memory, Printer Port, Real Time Clock, P1 Power Supply ^③
2707-L40P2R	LCD Display, 40K Memory, Printer Port, Real Time Clock, P2 Power Supply ^③
2707-V40P1R	VFD Display, 40K Memory, Printer Port, Real Time Clock, P1 Power Supply ^③
2707-V40P2R	VFD Display, 40K Memory, Printer Port, Real Time Clock, P2 Power Supply ^③
2707-V40P2NR	VFD Display, 40K Memory, Printer Port, Real Time Clock, P2 Power Supply NEMA Type 4X Rating (Indoor Use Only) ^③

^① See Specifications for voltage ranges of P1 and P2 Power Supplies.

^② Has selectable Comm port for uploading and downloading application files or firmware upgrades.

^③ Printer port is also used for uploading and downloading application files or firmware upgrades.

Accessories

Catalog Number	Description
2707-NC1	Cable, DH485 Network Interface
2707-NC2	Cable, RS-232C Program Upload/Download
2707-NC3	Cable, DF1 RS-232C Interface, 8 feet (2.43 meter)
2707-NC4	Cable, DF1 RS-422 Interface, 15 feet (4.57 meter)
2707-NC5	Cable, RS-485 Upload/Download Cable
2707-NC6	Cable, Bar Code Interface, connects to Allen-Bradley bar code scanners (Catalog No. 2755-G3-D, -G6-D, -LD1-D, -LD2-D)
2707-NC10	Cable, RS-232 Interface, 8 feet (2 meter)
2707-NP	Offline Software Development Package (Series H or later)

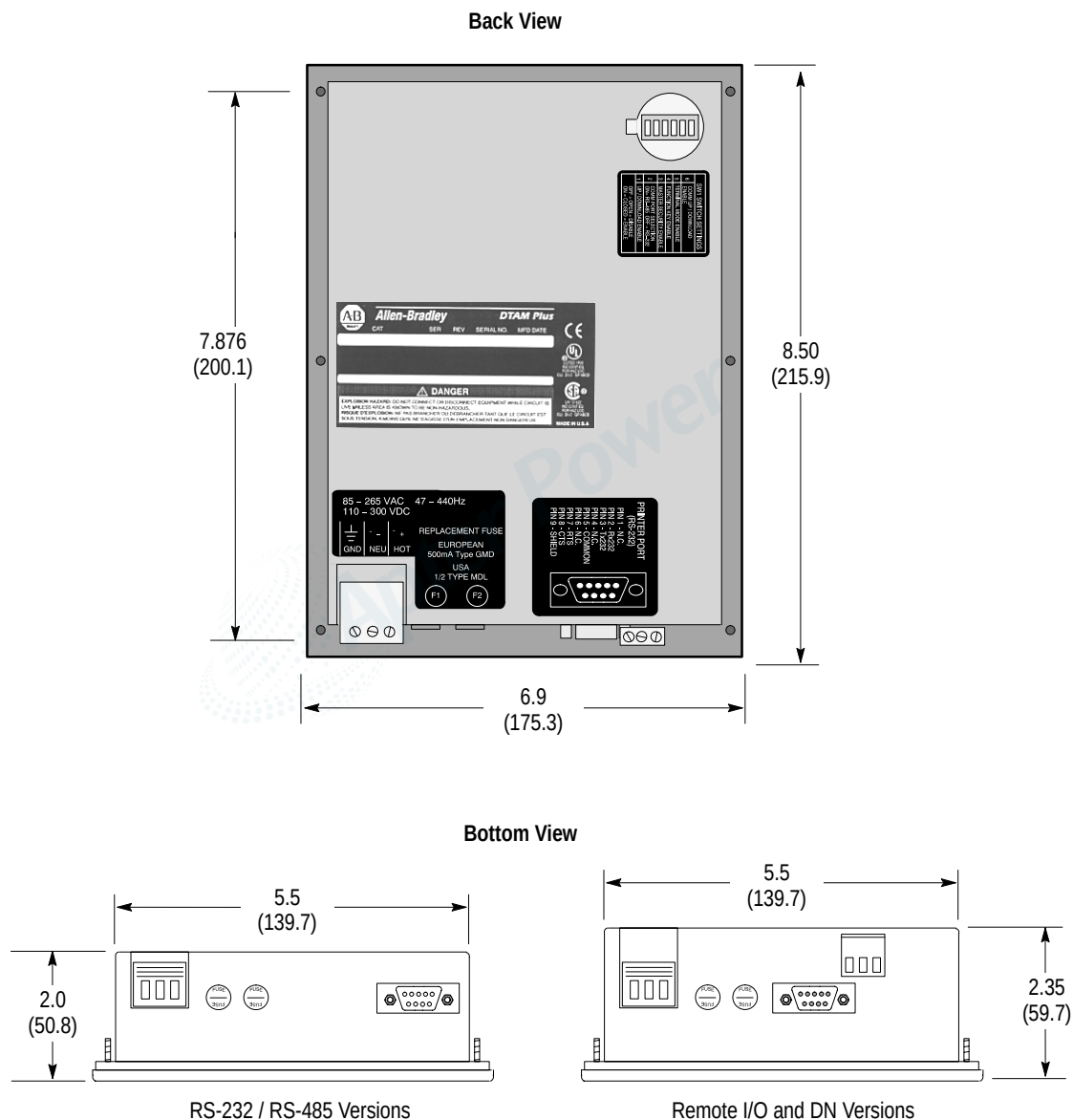
Chapter 5

Installation

Mounting Dimensions

Figure 5.2 shows the mounting dimensions of the terminal.

Figure 5.2
Mounting Dimensions in Inches (Millimeters)



Appendix

A

Specifications

DTAM Plus Specifications

Display

Column and Character	4 lines x 20 characters
Display Technology	
LCD (2707-L versions)	Twisted-nematic type with adjustable LED (yellow) backlighting
VFD (2707-V versions)	Vacuum Fluorescent Display with viewing distance that exceeds 25 feet (7.6 meters)
Backlight Settings for LCD Version (via Keypad)	Four (0,33,66 and 100%)
Contrast Ratio	10:1
Contrast/Brightness Settings (Keypad)	
LCD (2707-L versions)	4 settings
VFD (2707-V versions)	2 settings
Display Size (H x W)	
LCD (2707-L versions)	1.0 x 3.0 in (25.2 x 76.0 mm)
VFD (2707-V versions)	1.3 x 3.9 in (33.0 x 99.0 mm)
Character Size (H x W)	0.19 x 0.12 in (4.75 x 2.95 mm)

Keypad

Keypad Type	Embossed, sealed membrane
Tactile Feedback	Stainless steel dome
Operation Force	12 oz. $\pm$ 3 oz. (340 grams $\pm$ 85 grams)
Operational Life	1 million cycles

Electrical

Comm Port	RS-485 or RS-232C (configurable)
Printer Port (40K memory units)	RS-232C
Serial Communication Distances	
RS-485	4,000 ft (1219 meters) maximum with the Link Coupler (Catalog No. 1747-AIC)
RS-232C	50 ft (15 meters) maximum
RS-422	200 ft (61 meters) maximum to a PLC-5
Remote I/O Communication Distances	
57.6K	10,000 ft (2800 meters) maximum
115.2K	5,000 ft (1400 meters) maximum
230.4K	2,500 ft (700 meters) maximum

Voltage, Current, Fusing Requirements

Power Supply	Voltage	Current	Fuse
P1	15 - 23V AC, 47 - 440 Hz or 20 - 30V DC	800 mA max.	1 amp
P2	85 - 265V AC, 47 - 440 Hz or 110 - 300V DC	300 mA max.	1/2 amp

Port Isolation

Communication Port	500V isolation
Printer Port	500V isolation

Appendix A

Specifications

Environmental

Ambient Temperature Rating

Operating

LCD Display

0 to +45° C (32 to 113° F)

VFD Display

0 to +60° C (32 to 140° F)

Storage

-20 to +85° C (-4 to 185° F)

Relative Humidity

5 to 95%, noncondensing

Mechanical

Dimensions (Approximate)

Height:

7.6 inch (193.0 mm)

Width:

5.5 inch (139.7 mm)

Depth:

RS-232 / RS 485 Versions

1.8 inch (45.7 mm)

Remote I/O Versions

2.35 inch (59.7 mm)

Front Panel Size:

Height:

8.5 inch (215.9 mm)

Width:

6.5 inch (165.1 mm)

Weight

All except 2707-V40P2N,

-V40P2NR

2.1 lbs (0.95 kg)

2707-V40P2N, -V40P2NR

4.6 lbs (2.09 kg)

LED Indicators

RUN LED

Green

Alarm LED

Red

Function LED

Yellow

Agency Ratings

NEMA Type 4, 12, 13 (indoor use only)

NEMA Type 4x (2707-V40P2N, 2707-V40P2NR only)



Class 1 Division 2 Groups A, B, C, D, hazardous locations^①



Class 1 Division 2 Groups A, B, C, D, hazardous locations^①



^① Series B or higher – Cat. Nos. 2707-L8P1R, -L8P2R, -L40P1R, -L40P2R, -V40P1R, -V40P2R, -V40P2NR
Series C or higher – Cat. Nos. 2707-L8P1, -L8P2, L40P1, -L40P2, -V40P1, -V40P2, -V40P2N
Series D Only – Cat. Nos. 2707-L8P1, -L40P1, -V40P1

European Union Directive Compliance

If this product is installed within the European Union or EFTA regions, the following regulations apply.

This apparatus is tested to meet Council Directive 89/336 Electromagnetic Compatibility (EMC) Standards:

- EN50081–2 Class A (Industrial) Emissions
- EN50082–2 Class A (Industrial) Immunity
- EN61000–6–2 Class A (Industrial) Immunity (Series D Only)

According to these Standards, the factor which determines, for EMC purposes, whether an apparatus is deemed to be “Industrial” or “Residential, commercial and light industrial”, is given in Clause 1 of EN50081–2 as follows:

Apparatus covered by this standard is not intended for connection to a public mains network, but is intended to be connected to a power network supplied from a high– or medium–voltage transformer dedicated for the supply of an installation feeding a manufacturing or similar plant.

The product described in this document is intended solely for use in an industrial environment as defined above. When installed in Europe, any other application is in contravention of the European Union Directives, and a breach of those laws.