

**SAFETY INFORMATION**

Description	Publication	Symbol
Direct current	IEC 417, No. 5031	
Alternating current	IEC 417, No. 5032	
Both direct and alternating current	IEC 417, No. 5033	
Three-phase alternating current	IEC 617-2, No. 02-02-06	
Earth (ground) terminal	IEC 417, No. 5017	
Protective conductor terminal	IEC 417, No. 5019	
Frame or chassis terminal	IEC 417, No. 5020	
Equipotentiality	IEC 417, No. 5021	
On (Supply)	IEC 417, No. 5007	
Off (Supply)	IEC 417, No. 5008	
Equipment protected throughout by double insulation or reinforced insulation (equivalent to Class II of IEC 536)	IEC 417, No. 5172	

**SAFETY INFORMATION**

**Warnings**

Connections to this equipment must be carried out in accordance with current IEE regulations, and all wiring must be separated in accordance with IEC1010.

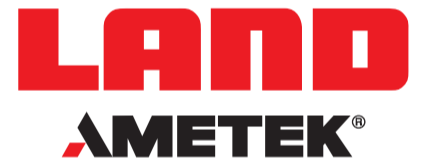
Before installation, check that the model number and supply voltage suit your application.

This device has mains voltages connected to its terminals. It is recommended, therefore, that the device is mounted within a suitable enclosure in order to avoid unintentional contact with the mains supply.

This product is designed for installation class II service.

This product is designed for use in Pollution - Degree 2 environments.

Description	Publication	Symbol
Caution, risk of electric shock	ISO 3864, No. B.3.6	
Caution	ISO 3864, No. B.3.1	
Observe precautions for handling electrostatic discharge sensitive devices	BS EN 100015	
Refer to the Operating Instructions.		



# SYSTEM 4 LANDMARK TECHNIC USB

## Installation Guide

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## 1.0 INSTALLATION AND REMOVAL

### 1.1 Dimensional Information

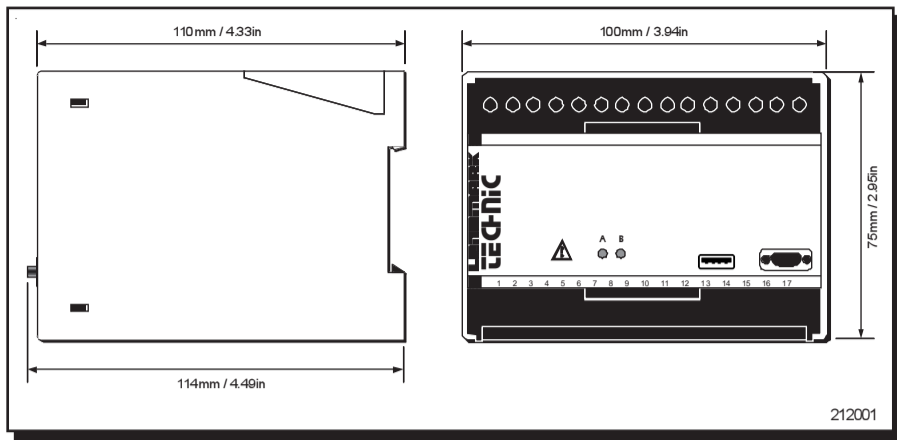


Fig. 1 LM Technic dimensions

### 1.2 Fitting the Unit onto a DIN Rail

The Landmark Technic (LMT) processor is designed to be mounted on a standard DIN rail. To install the unit:

- Ensure that a suitable DIN rail (DIN EN 50 022) is available and installed correctly.
- Refer to Fig. 2. Rest the uppermost groove on the rear of the processor on the top lip of the DIN rail.
- Push the bottom of the unit so that the sliding spring catch clips onto the DIN rail.

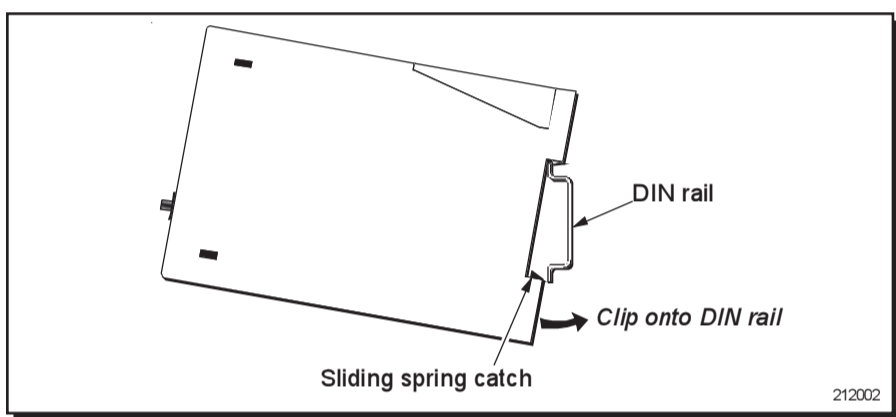


Fig. 2 Installing the LM Technic onto a DIN rail

### 1.3 Removing the Unit from a DIN Rail

- Refer to Fig. 3. Insert a screwdriver into the sliding spring catch via the slot on the underside of the unit.
- Lever the sliding spring catch downwards so that it disengages from the DIN rail.
- Lift the processor off the DIN rail.

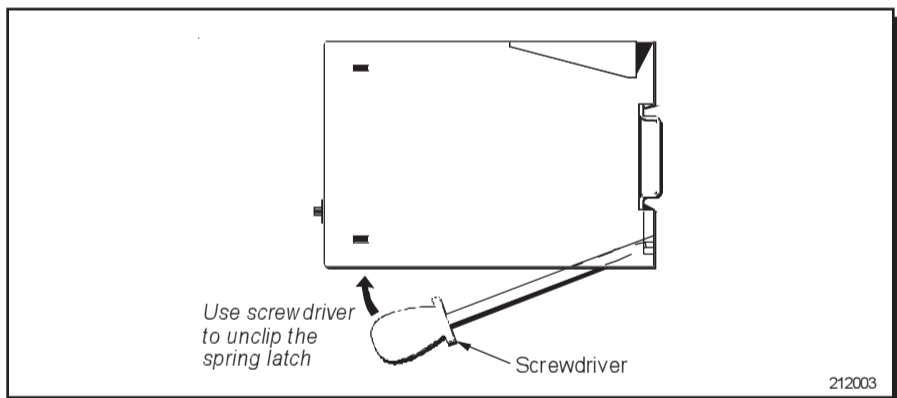


Fig. 3 Removing the LM Technic from a DIN rail

### 1.4 Cable Connector Assembly

The cable connectors for the processor are included in the processor package. Each cable connector must be correctly wired with the appropriate cable.

- Make a note of the connector's orientation.
- Unclip the two halves of the connector shell to reveal the terminal block and the cable tie/clamp bar.
- Wire up the connector, remembering the correct orientation of the plug. Refer to Fig. 4
- Ensure that the cable outer insulation is held in the cable tie/clamp bar at the connector and tighten the clamp bar screws/cable tie.
- Clip together the two halves of the connector shell, ensuring that the 'write-on' label is held in place by the shell assembly

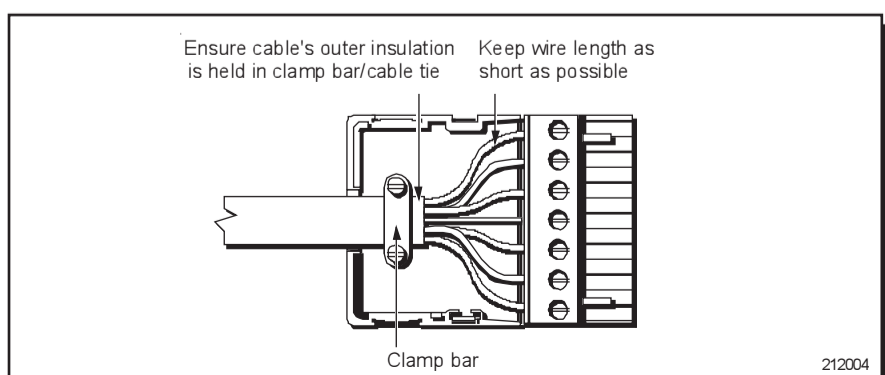


Fig. 4 Correct cable connector wiring arrangement

## 2.0 ELECTRICAL CONNECTIONS

The Landmark Technic (LMT) processor is designed to be used in conjunction with the Land DPU Power Supply Unit.

815835 DPU-UI DIN Rail Power Supply -Uni. Input.

The LMT to DPU wiring interconnections are given in Fig. 5.

The LMT wiring schedule is given in Table 1.

The Configurator terminal connections are given in Table 3.

Configurator can also be connected via USB 'C'

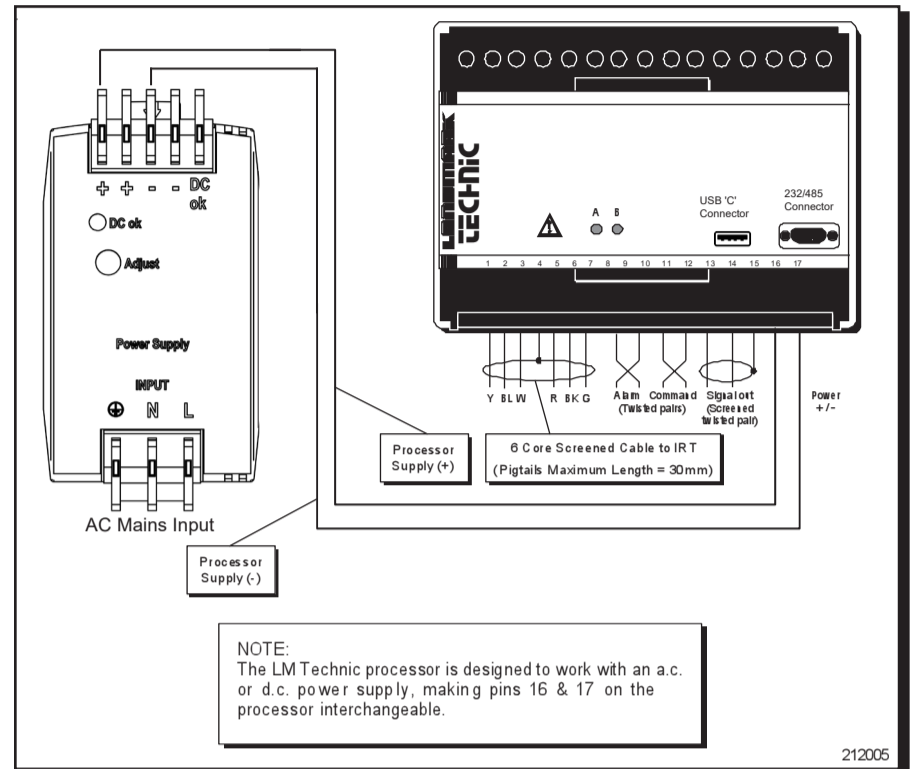


Fig. 5 LM Technic and DPU interconnections

LM Technic Terminal Number	Wire Colour	Function
1	Yellow	Signal input (+) from thermometer
2	Blue	Signal input (-) from thermometer
3	White	Emissivity output (+) to thermometer
4	Screen	Thermometer cable screen
5	Red	Thermometer power supply (+)
6	Black	Thermometer power supply (-)
7	Green	Emissivity return (-)
8	-	Not applicable - do not use
9	-	Alarm relay (1)
10	-	Alarm relay (2)
11	-	Command (+)
12	-	Command (-)
13	-	Signal out (+)
14	-	Signal out (-)
15	-	Signal out (screen)
16	-	Processor power supply input (1)
17	-	Processor power supply input (2)

Table 1 - LM Technic terminal connections

Configurator Connector Pin No.	Function	RS232 cable (031.085)	
		Colour	D Type Pin No.
1	0V	Black	5
2	232 RX	Yellow	3
3	232 TX	White	2
4	485 (Y)	-	-
5	485 (Z)	-	-
6	Do not use	-	-
7	Do not use	-	-
8	485 (A)	-	-
9	485 (B)	-	-

Table 2 - Configurator terminal connections