

## About this guide

This guide gives the basic information necessary to install a Land System 4 'Landmark' processor. More detailed information is contained in the 'User Guide'. Information regarding the repair of the processor is contained in the 'Service Manual'.

It is important to check the equipment with which you have been supplied to ensure that all ordered items and accessories have been delivered.

## Environmental Specification

Ambient temperature limits:	5 to 50°C/40 to 120°F specified 5 to 60°C/40 to 140°F operating
Humidity:	0 to 99%, non-condensing
Vibration:	1G, any axis, 10 to 300Hz
EMC immunity:	EN 50 082-2
EMC emission:	EN 50 081-1
Sealing:	IP65 to front panel (when fitted with protection cover) IP30 to rear panel

These specifications are subject to change without notice.

**SYSTEM 4**

**LANDMARK**

**GRAPHIC & CLASSIC**

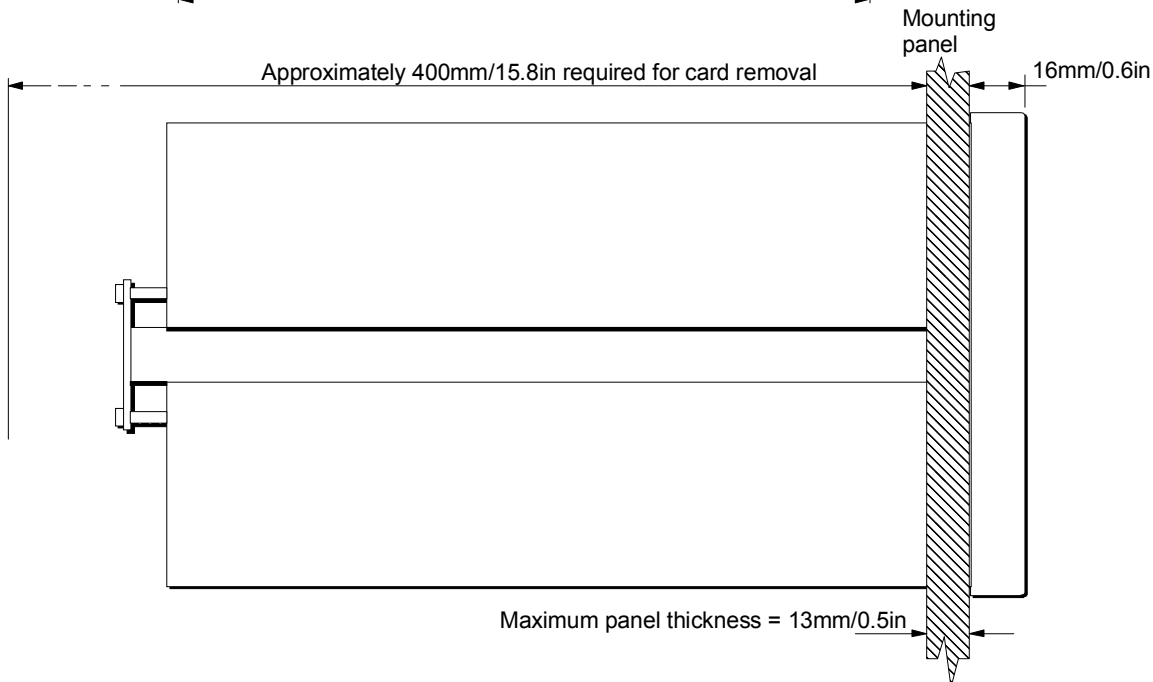
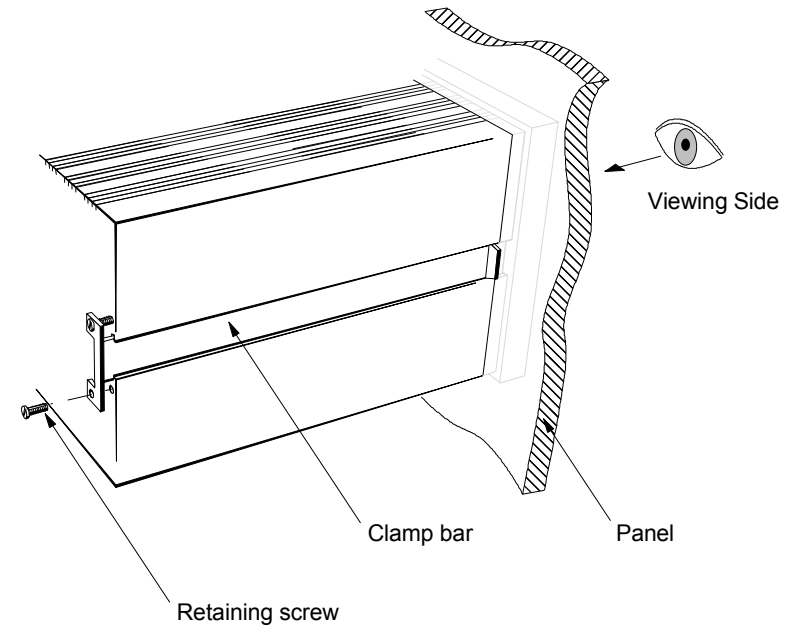
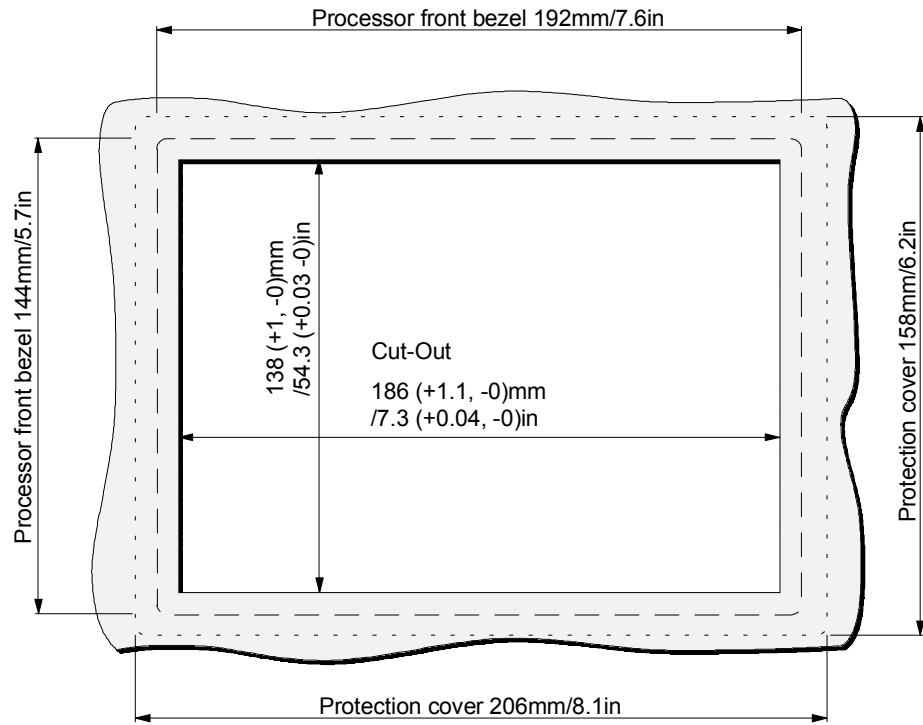
**Processors**

# Installation Guide

Land Instruments International  
Dronfield S18 1DJ  
England  
Telephone: (01246) 417691  
Facsimile: (01246) 410585  
Email: [infrared.sales@landinst.com](mailto:infrared.sales@landinst.com)  
Internet: [www.landinst.com](http://www.landinst.com)

Land Instruments International  
10 Friends Lane  
Newtown PA 18940-1804 U.S.A.  
Telephone: (215) 504 8000  
Facsimile: (215) 504 0879  
Email: [irsales@landinstruments.net](mailto:irsales@landinstruments.net)  
Internet: [www.landinstruments.net](http://www.landinstruments.net)

## Panel Mounting Information



### Mounting Instructions

#### Note

Mounting the processor in a panel is best achieved with two people, one on the viewing side and one at the rear of the mounting panel.

- (i) Unscrew the four retaining screws on the rear of the processors and slide out the two clamp bars.
- (ii) From the viewing side, insert the processor in the mounting panel.
- (iii) From the rear, re-insert the clamp bars into their channels and push them up to touch the mounting panel.
- (iv) Insert and tighten the retaining screws until the mounting panel is firmly gripped between the processor front panel and the clamp bars.

#### Caution

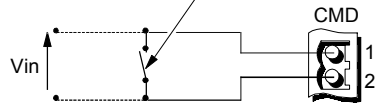
Do not over-tighten the screws as this will deform the clamp bars.

# GRAPHIC Processor

Alarms		
1	C	Alarm 1
2	NO	
3	NC	
4	C	Alarm 2
5	NO	
6	NC	

CMD (Command)	
1	CMD+
2	CMD-

Remote switch or potential-free contacts



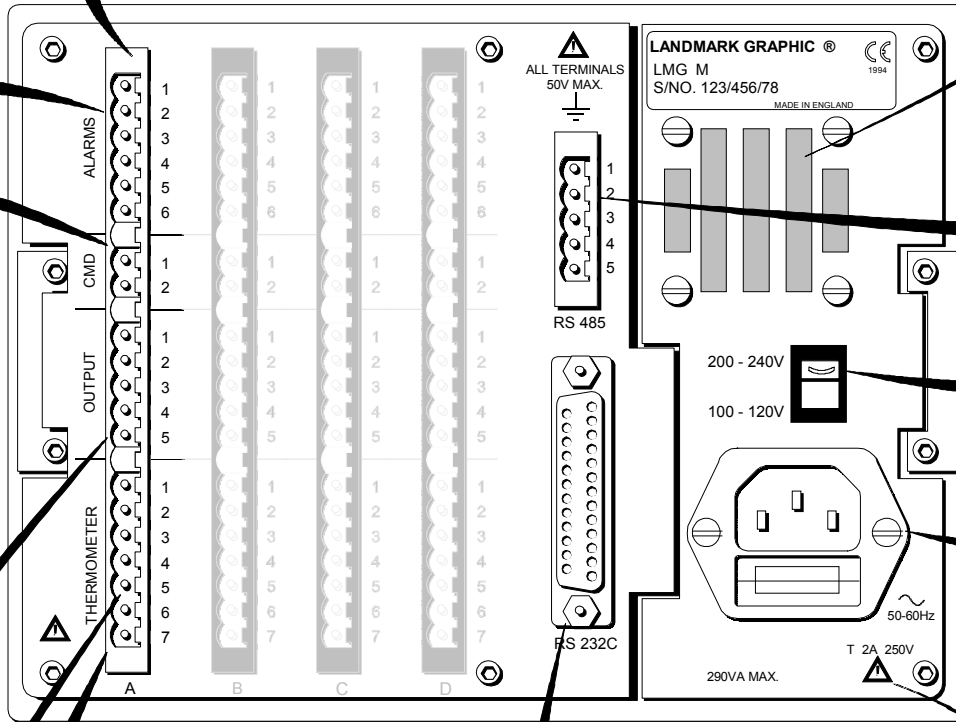
Switch/contacts	Peak Picker	Track & Hold
Open circuit	Peak Pick	Track
Short circuit	Reset	Hold

**Note**  
Switch/contacts can be replicated by a dc voltage  $V_{in}$ . Where:  
>+3.0V = Open circuit  
<+1.5V = Short circuit

Output	
1	I+
2	I-
3	Screen
4	V+
5	V-

Thermocouple Transmitter	
Pin N°	Function
1	Current Drive
2	Current Return

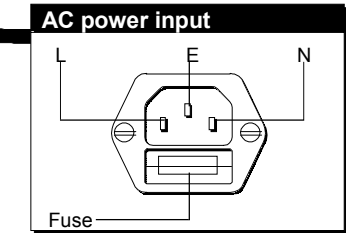
**Channel A**  
Up to 4 channels can be connected to the processor.  
Channels B, C and D have identical pin configurations to Channel A.



**Caution**  
Keep fan vent clear of obstructions.

RS 485 (optional)	
1	RXD
2	RXD
3	Screen
4	TXD
5	TXD

**Supply voltage selector**  
Set this switch to correspond with the a.c. power supply voltage.

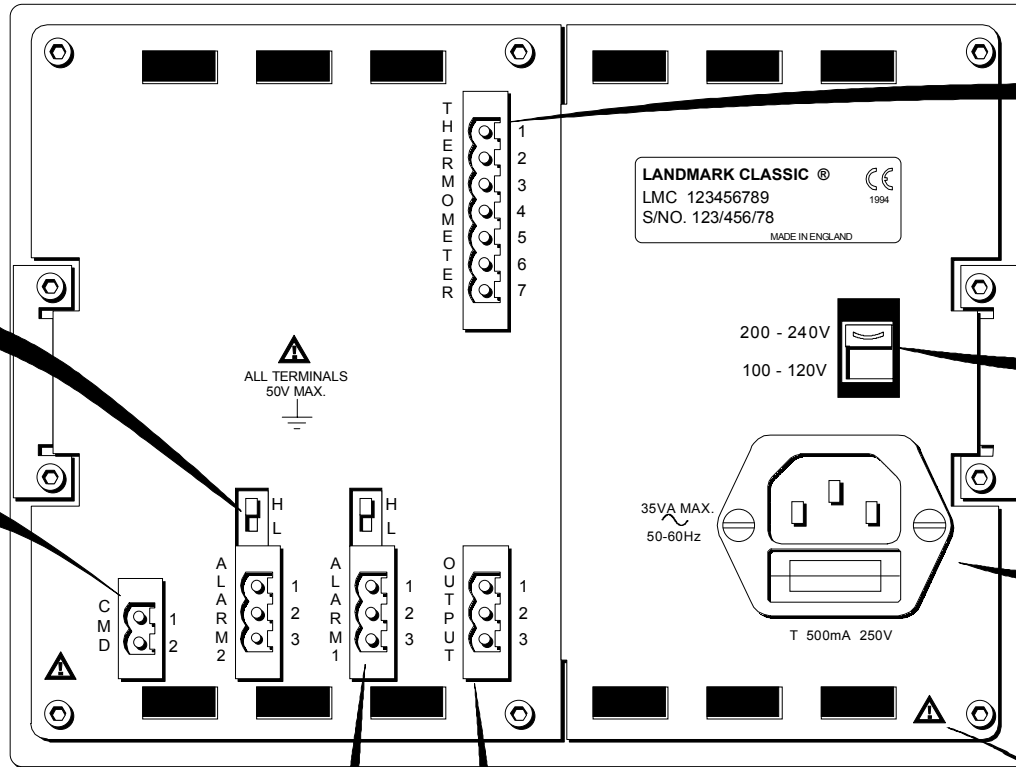


Thermometer		
Pin N°	Cable Colour	Function
1	Yellow	T+
2	Blue	T-
3	White	E+
4	Screen	Screen
5	Red	V+
6	Black	V-
7	Green	E-

RS 232 C (optional)					
1	Screen	10	-	19	-
2	TXD	11	-	20	DTR
3	RXD	12	-	21	-
4	RTS	13	-	22	-
5	CTS	14	-	23	-
6	DSR	15	-	24	-
7	GND	16	-	25	-
8	DCD	17	-		
9	-	18	-		
					- = No connection

**Warning**  
 Risk of electric shock.  
Refer to the processor Service Manual before removing the rear panel screws.  
Ensure that the a.c. mains input is disconnected before removing the rear panel of the processor.

**CLASSiC** Processor

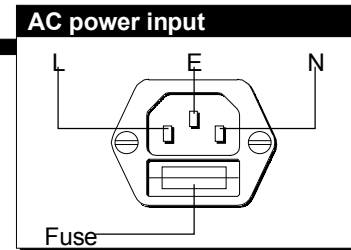


Thermometer		
Pin N°	Cable Colour	Function
1	Yellow	T+
2	Blue	T-
3	White	E+
4	Screen	Screen
5	Red	V+
6	Black	V-
7	Green	E-

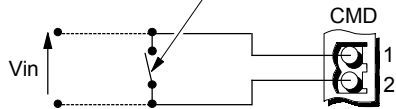
High/Low Alarm Selector	
H	High alarm
L	Low alarm

CMD (Command) input	
1	CMD+
2	CMD-

**Supply voltage selector**  
Set this switch to correspond with the a.c. power supply voltage.



Remote switch or potential-free contacts



Switch/contacts	Peak Picker
Open circuit	Peak Pick
Short circuit	Reset

**Note**  
Switch/contacts can be replicated by a dc voltage  $V_{in}$ . Where:  
>+3.0V = Open circuit  
<+1.5V = Short circuit

Alarms	
1	C
2	NO
3	NC

Output (4 to 20mA)	
1	I +
2	Screen
3	I -

**Warning**  
 Risk of electric shock.  
Refer to the processor Service Manual before removing the rear panel screws.  
Ensure that the a.c. mains input is disconnected before removing the rear panel of the processor.