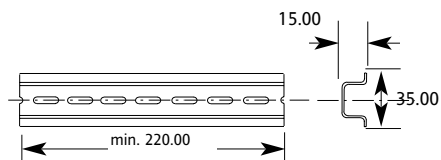
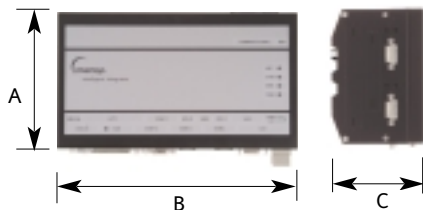


Mounting information

The T225 is designed to be directly mounted on to a 35mm DIN rail. The rear of the housing is equipped with snap-on mechanism for ease of installation.



The DIN rail should be fixed horizontally on a vertical plane with a minimum thickness of 2mm for stability



Dimension	mm
A	125
B	220
C	85

The Unit is intended for mounting within a cabinet and for indoor use only.

To fit hook the upper edge of the DIN rail clip on the instrument on the top of the DIN rail and push.

To remove use a screwdriver to lever down the lower DIN rail clip and lift forward when the clip has released.

Environmental Requirements	Minimum	Maximum
Temperature	0°C	50°C
Humidity (non condensing)	5% RH	90% Rh

Weight	1200g
Sealing	IP30

This unit is intended for industrial temperature and process control applications when it will meet the requirements of the European Directives on Safety and EMC. Use in other applications, or failure to observe the installation instructions of this handbook may impair safety or EMC. The installer must ensure the safety and EMC of any particular installation.

Electromagnetic compatibility

CE marked to the immunity to interference (EN61000-6-2:1999) and emissions directive (EN61000-3-2:2000) for industrial environments.

GENERAL

The information contained in this manual is subject to change without notice. While every effort has been made to ensure the accuracy of the information, your supplier shall not be held liable for errors contained herein.

Unpacking and storage

The packaging contains an instrument Installation Guide and a CD with the instrument User Manual and general documentation.

If on receipt, the packaging or the instrument are damaged, do not install the product but contact your supplier. If the instrument is to be stored before use, protect from humidity and dust in an ambient temperature range of 0°C to +70°C.

Service and repair

This unit has no user serviceable parts. Contact your supplier for repair.

Electrostatic discharge precautions

When the unit is removed from its packaging, some of the electronic components are vulnerable to damage by electrostatic discharge through the connectors from someone handling the unit. To avoid this, before handling the controller discharge yourself to ground.

INSTALLATION SAFETY REQUIREMENTS

Safety Symbols

Various symbols are used on the instrument, they have the following meaning:



Caution (refer to the accompanying documents)

Personnel

Installation must only be carried out by suitably qualified personnel.

Enclosure of live parts

To prevent hands or metal tools touching parts that may be electrically live, the unit must be installed in an enclosure.

Wiring

It is important to connect the unit in accordance with the wiring data given in this guide. Take particular care not to connect AC supplies to the low level inputs and outputs. Only use copper conductors for connections and ensure that the wiring of installations comply with all local wiring regulations. For example in the UK use the latest version of the IEE wiring regulations, (BS7671). In the USA use NEC Class 1 wiring methods.

Power Isolation

The installation must include a power isolating switch or circuit breaker.

Overcurrent protection

The power supply to the system should be fused appropriately to protect the cabling to the units.

Conductive pollution

Electrically conductive pollution must be excluded from the cabinet in which the unit is mounted. For example, carbon dust is a form of electrically conductive pollution. To secure a suitable atmosphere, install an air filter to the air intake of the cabinet. Where condensation is likely, for example at low temperatures, include a thermostatically controlled heater in the cabinet.

INSTALLATION REQUIREMENTS FOR EMC

To ensure compliance with the European EMC directive certain installation precautions are necessary as follows:

For general guidance refer to EMC Installation Guide, HA025464.

Routing of wires

To minimise the pick-up of electrical noise, the ELIN and ALIN communication cables should be routed away from high-current power cables. Where it is impractical to do this, use shielded cables with the shield grounded at both ends. In general keep cable lengths to a minimum.



T225 ELIN/ALIN BRIDGE

INSTALLATION AND WIRING INSTRUCTIONS

T225 Description

The T225 ELIN-ALIN Bridge provides network connectivity between LIN nodes on ELIN and ALIN networks.



The unit operates transparently passing Database and Filing data to and from either side of the bridge. Redundant operation can be achieved by duplicating units.

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Eurotherm Limited pursues a policy of continuous development and product improvement. The specifications in this document may therefore be changed without notice. The information in this document is given in good faith, but is intended for guidance only. Eurotherm Limited will accept no responsibility for any losses arising from errors in this document.

Systems Status LEDs

Name	Colour	Function
IDE	Green	Activity LED for Compact Flash
ERR	Red	Error with ALIN or ELIN ports
STAT	Red	Forwarding data
PWR	Green	Unit is powered up

Digital I/O Connector

Note: Only Digital outputs used

Function	Name	Front panel D-Sub
Unit running	WatchdogOut+	2
	WatchdogOut-	1
Forwarding messages	OUT1+	7
ALIN good	OUT2+	8
ELIN good	OUT3+	9
Common negative for OUT1-3	OUT1, 2, 3-	6

All signals from this connector are fully opto-isolated to each other and frameground. The Digital outputs are open collector drivers 30V at 40mA max.

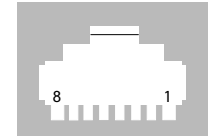
ELIN port LED's

LED's	Name	Function
Left	Speed	ON = 100BaseT Off = 10BaseT
Right	Link/Activity	ON = link, Blink = Activity

ELIN Interface 1 (10/100BaseTX)

Note: The T255 Ethernet port1 is operative for ELIN, FTP and Telnet.

Name	
TXD+	1
TXD-	2
RXD+	3
BIAS1	4
BIAS1	5
RXD-	6
BIAS2	7
BIAS2	8



Socket outside view

Power Supply

Power supply voltage 10-30Vdc
Power consumption 12W maximum

Name	Pin
Frameground	1
Voltage supply -	2
Voltage supply +	3



Screw terminals can accept wire sizes 0.2-2.5mm (24-12awg)

ALIN

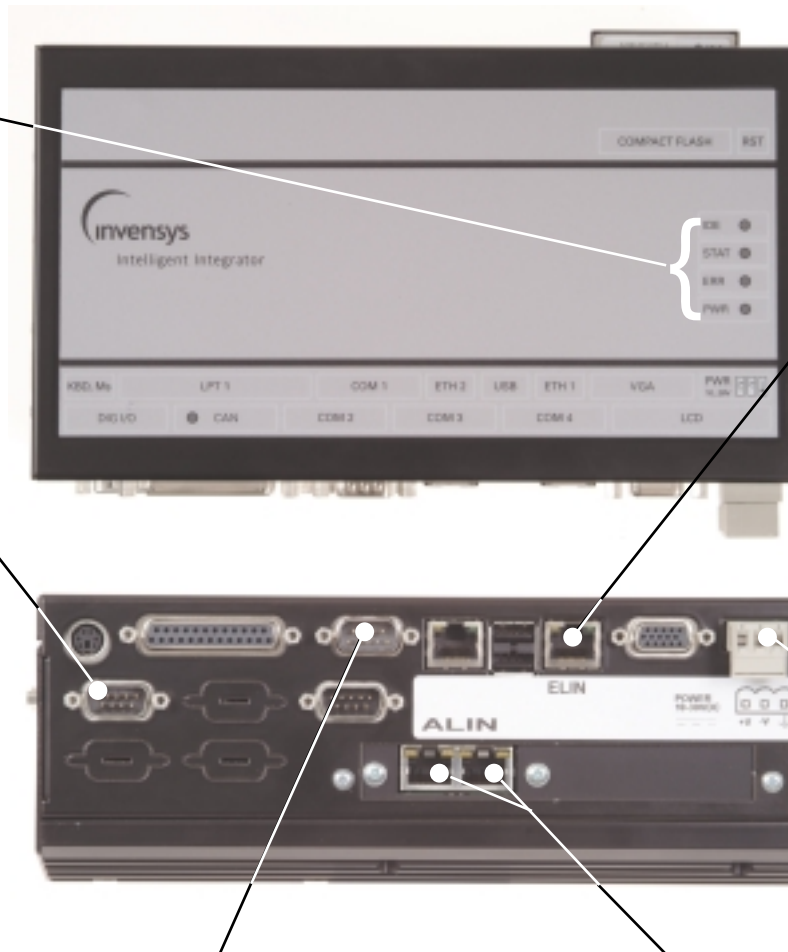
ALIN network connection has two RJ45 sockets connected in parallel. The first socket into the device and the second one to daisy chain on to the next slave, or for a line terminator.

ALIN - RJ45 Communications line terminator

The communication line must daisy chain from device to device and be correctly terminated at the end of the line.

ALIN terminators containing the correct termination resistors are available from Eurotherm, order code: C1026528

	ALIN
1	Not used
2	Not used
3	Not used
4	ALIN A
5	ALIN B
6	Not used
7	Not used
8	Not used



IP and LIN Node Address Setup

The communication addresses of the T225 are setup via a terminal emulator such as HyperTerminal.

9600Baud

7 Data bits

Even parity

1 Stop bit

To access the setup page, at the prompt, press 'T' to start the terminal configuration.

Type 1, 'U' for utilities <CR>

'E' for ELIN <CR>

For further information refer to T225 User Manual.

COM1 T255 Configuration Port

RS232 9 Way male D type connector

Pin assignement	
N/A	= 1
Rx	= 2
Tx	= 3
N/A	= 4
Signal cond.	= 5
N/A	= 6
N/A	= 7
N/A	= 8
N/A	= 9

PC to T225 COM1 Configuration cable

