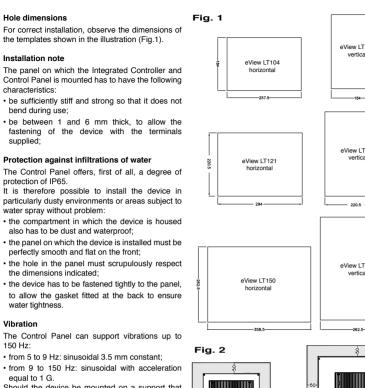
MOUNTING



Should the device be mounted on a support that exceeds these limits it is necessary to envisage a system for the suspension and mitigation of the vibration

Minimum spaces for ventilation

The temperature of the compartment that houses the Control Panel must not exceed, 55 °C Figure 2- Free spaces for ventilation shows the

minimum free distances recommended in the installation of the device in a closed compartment.

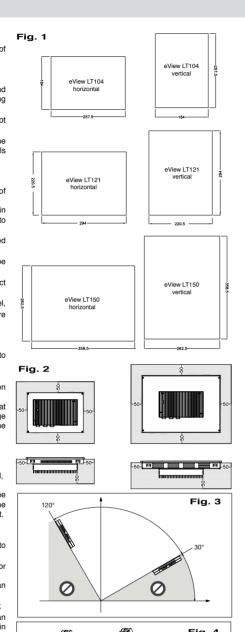
Positioning

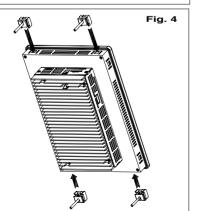
The Control Panel has to be positioned in order to guarantee the following conditions:

- · the screen must not be directly lit by the sun or particularly bright light sources. If necessary, screen direct rays, using an
- antiglare shutter for example;
- · there must be no sudden temperature changes; • there must be a low explosion risk; it can be connected to elements that operate in environments with a hazardous atmosphere (flammable or explosive) only through appropriate and suitable types of interface, compliant to the
- safety standards in force: · low presence of magnetic fields
- The angle of the controller must be between 45° and 120°, as shown in figure (Fig. 3).

Fastening to the panel

Insert the Control Panel into the panel, connect the 4 terminals supplied to the device and tighten the screw until the device is fastened tightly to the panel. (Fig.4).





		eView LT104	eView LT121	eView LT150	
	Operating voltage	24 VDC ±25%			
POWER SUPPLY	Current draw (at 24 VDC)	700 mA max	1000 mA max	1100 mA max	
	Power dissipation	17 W max	24 W max	26.5 W max	
	Protections	Polarity inversion Short circuit			
	Connection	3-pin polarized removable connector Screw terminals, max cable section 2.5 mm ²			
CONNECTIONS	Ethernet port (ETH)	Number of channels: 2 max (1 optional)			
		Connector: RJ45 Velocity: 10 / 100 / 1000 Mbit/s Signals: green connection LED, yellow data LED			
	KEY & LED port	Connector: RJ45; Standard: USB2.0			
	RS-232 port (optional)	Connettore: DB9 M; Velocità: 1.2kbit/s115kbit/s			
	RS-485 port (optional)	Optically isolated Connector: DB9 M Speed: 9 kbit/s 19 kbit/s Terminations and polarization: internal, selectable with jumper			
	CAN port (optional)	Optically isolated Connector: DB9 M Speed: 20, 50, 100, 125, 250, 500, 1000 kbit/s, default 500 kbit/s Termination: internal, selectable with jumper			
	USB port	Number of ports: 2 max; Connector: type A; Standard: USB 2.0 Protection: overload			
COMMUNICATION	Ethernet	FTP (File Transfer Protocol) Modbus TCP/IP Master/Slave Ethercat Master; GDNET Master			
PROTOCOLS	CAN	CANopen Master			
	Modbus	Modbus RTU Master/	Slave		
	Size (diagonal)	10,4"	12,1"	15"	
	Format	4:3			
	Pixel resolution	800 × 600	-	1024 × 768	
	Screen area (L x H)	211,2 × 158,4 mm	246,0 x 187,5 mm	304,1 × 228,1 mm	
DISPLAY	Colors	256 K / 18 bit		16 M / 24 bit	
	Luminosity	400 cd/m ²	450 cd/m ²	500 cd/m ²	
	Contrast	500:1		1500:1	
	Backlighting	White LEDs White LEDs life 30.000 life 50.000 ore @ 25 °C ore @ 25 °C			
	Visual angle	Horizontal: 70° - 70° Vertical: 50° - 60°	Horizontal: 89° - 89° Vertical: 89° - 89°	Horizontal: 70° - 85° Vertical: 70° - 85°	
CONFIGURATION	Access to software procedures	16-position rotary switch			
ELEMENTS	Touch screen calibration	Via software on product			
CONTROL ELEMENTS	Touch screen	4-wire resistive techno	blogy		
VIEWING ELEMENTS	Diagnostics	PW LED (yellow): power supply on RN LED (green): PLC program state LED E1 (red): HW Watchdog state LED E2 (red): PLC program error			
MICROPROCESSOR	Type and frequency	ATOM E640 1 GHz ATOM E660, 1.3 GHz	ATOM E640 1 GHz ATOM E660, 1.3 GHz		
	System	512 MB, DRAM type I	DDR II		
MEMORY	Mass	2 GB Flash memory	2 GB Flash memory		
	Mass extension	SD Card Slot *			
	Operating temperature	0 +55 °C (as per IEC 68-2-14)			
AMBIENT	Storage temperature	-20 +70 °C (as per IEC 68-2-14)			
CONDITIONS	Relative humidity	max 95% RH non condensing (as per IEC 68-2-3)			
	Vibrations	5 to 9 Hz: sine constant 3.5 mm 10 to 150 Hz: sine acceleration 1G			
ASSEMBLY		Built-in, in control boards or panels			
PROTECTION LEVEL		IP 65 on front panel (as per IEC 68-2-3)			
WEIGHT				2,850 kg	
CE STANDARDS	EMC (electromagnetic compatibility)	Conforms to Directive 2014/30/EU EN61131-2: Programmable controllers Part 2: Equipment requirements and tests.			

* SD card not supplied. Available as accessory

TECHNICAL DATA

GEFRAN

eView LT eView LT104 / LT121 / LT150 Control panel



code 81697B - 09/2017 - ENG

QUICK INSTALLATION GUIDE

- Side 1 Warnings and safety Mounting Technical data
- Side 2 Connections Dimensions

GEFRAN spa via Sebina, 74 - 25050 Provaglio d'Iseo (BS) Tel. 03098881 - fax 0309839063- Internet: http://www.gefran.com

WARNING and SAFETY

Whil	e all the information contained in this manual has been carefully checked, Gefran S.p.A. accepts
🕼 no re	esponsibility for the possible presence of errors or for damage to persons and/or property caused
by th	he improper use of the manual.
Gefran S.p.,	A. also reserves the right to make changes to the contents and form of this manual and to the charac-
teristics of t	he devices illustrated at any time and without prior warning.
The installat	ion of the devices illustrated in the manual must be carried out by qualified technicians in compliance with
the laws and	d standards in force and in agreement with the instructions contained in the manual.
If the eView	LT is used in applications with the risk of damages to persons, machinery or materials, its use in conjunc-
tion with alaı	rms is essential.
lt is advisabl	le to envisage the possibility of checking the intervention of the alarms during regular operation.
	acting with the Control Panel, the operator must receive full training in the procedures of operation, emer- nosis and maintenance of the system.
More inform	nation on the device and on the procedures of installation, maintenance and use can be found in the
installation r	manual and use eView LT, freely downloadable from the site www.gefran.com.
11	NOTES ON ELECTROMAGNETIC COMPATIBILITY:
CE	CE: Conformity EMC (electromagnetic compatibility) in compliance with Directive 2014/30/EU.LV

CE: Conformity EMC (electromagnetic compatibility) in compliance with Directive 2014/30/EU.LV EN61131-2: Programmable controllers

Part 2: Equipment requirements and test.

Graphic simbol

Indicates contents of sections, general instructions, notes, and other points to which the reader's attention needs to be called.

 \wedge Indicates a particularly delicate situation that could affect the safety or correct operation of the controller, or an instruction that MUST be followed to prevent hazards.

Fig. 8

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Fig. 9

Fig. 10

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Fig. 11

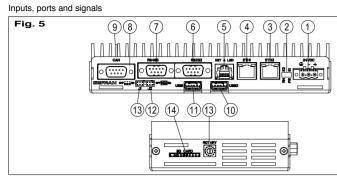
120 2

J1

OFF

- J2

DIMENSIONS



No	Description	Connector / indicator	Notes
1	24 VDC ± 25% power supply input	Removable polarized terminal block	
2	LED	PW (yellow): power ON RN (green): PLC program status E1 (red): local I/O bus error E2 (red): HW Watchdog status	
3	Supplemental Ethernet port	RJ45	optional
4	Ethernet port	RJ45	
5	KEY & LED	RJ45	For GEFRAN Keypad
6	RS232	DB9 M (D-sub 9-pin male)	optional
7	RS485	DB9 M (D-sub 9-pin male)	optional
8	CAN	DB9 M (D-sub 9-pin male)	optional
9	Porta USB	Туре А	
10	Porta USB	Туре А	
11	J2	Jumper	Configuration of RS485 polarization and termination
12	J1	Jumper	Configuration of CAN termination
13	Rotary	16-position Rotary	
14	SD Card Slot	Standard SD Card	SD card not supplied. Available as accessory

Power

Fig. 6 The Integrated Controller and Operator Panel must be connected to a 24 Vdc power supply unit. The same 24 Vdc power supply can feed several devices

Make sure that the current issued by the power supply is higher than the total maximum current absorbed by all the devices connected Considering that the device has no switch, it is necessary

to install one before it, with a protective fuse. The switch has to be positioned in the immediate vicinity of the device and be easy for the operator to reach (Fig. 6).

For the 24 Vdc power supply, use a separate line from that used for electromechanical power devices such as relays, contactors, solenoids, etc. If there are considerable changes in the mains voltage, use a voltage stabilise

Near to high frequency generators or arc welders, use adequate grid filters. Connect the power cables to the power connector.

Fit the ferrite core, supplied with the product, as close as possible to the device to limit the susceptibility of the device to electromagnetic disturbance (Fig. 7). The 24 Vdc power cables must follow a separate route from the power cables of the system or the machine. Make sure that the earth connection is efficient. A non-existent or inefficient earth connection can make the operation of the device unstable, due to excessive environmental.

In particular, check that:

- the voltage between ground and earth is < 1 V;
- the ohm resistance is < 6 Ω.

CAN The CAN port is optional.

Connect the cable for the CAN field bus (CANopen protocol). The maximum length of the cable depends on the transmission speed. (See the manual for further information)

Considering that the CAN port is opto-isolated, it is not necessary to disconnect the power to the device before connecting it.

Warning: The CAN port has a line termination. If the CPU module is the last or the first device on the CAN line, you have to insert the termination (120 Ω resistance, ¼ W, 5%) by setting jumper J1 as shown in figure 8 Remember that the CAN bus must be terminated at both

ends

The CAN line termination is settable with jumper J1 as shown figure 9.

BS485

The RS485 port is optional Considering that the RS485 is opto-isolated, it is not necessary to disconnect the power to the Integrated Controller and Control Panel and to the device to be connected before connecting them. The maximum length of the cable depends on the transmission speed. (See the manual for further information).

The RS485 port is equipped with internal termination and polarization, as shown in the figure 10

The RS485 line polarizations and termination are settable with jumper J2 as shown figure 11.

Ethernet

The Ethernet port lets you connect the Contro Panel to a computer or a corporate LAN or, if the product has the option, to an Ethercat network. The connection cable to use (either straight or crossover) depends on the type of device that has to be connected. For the connection, use a CAT6 UTP cable or superior,

You can also use a CAT5e cable (only for ETHERCAT). The maximum length of the Ethernet cable is 100 metres. Do not run the Ethernet cable alongside the machine power cables, to avoid interference with data transmission.

LISB

The USB port is optional and is used to connect external devices compliant to the USB standard. The connector is Type A and the port supports version

The port is able to issue a current of 500 mA at 5 Vdc to

The maximum length allowed for the USB cable is 5 metres. It is possible to directly access the USB port of the controller from the panel using the transfer cable (accessory to order separately). To fit the socket of this cable, the panel thickness, in the position chosen, should

SD Card

The SD Card mass memory lets you store data and applications.

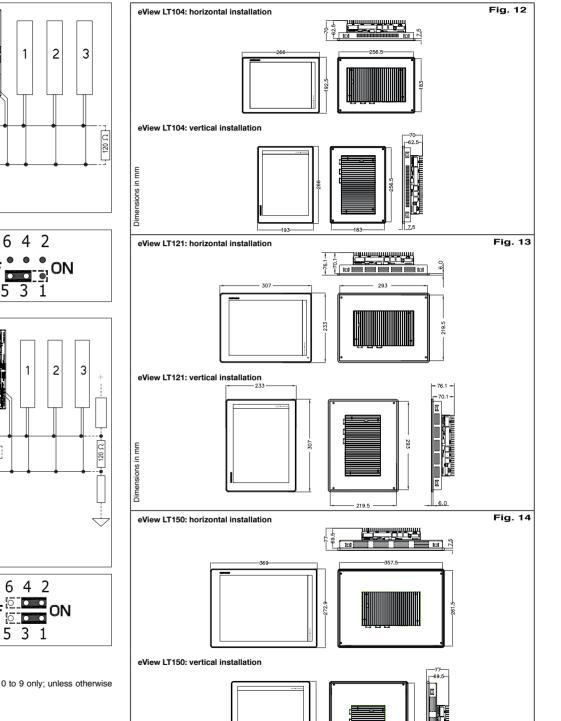
SD Card function is defined by position of the rotary selector (use positions 0 to 9 only; unless otherwise instructed, do not use positions A to F).

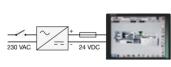
RS232

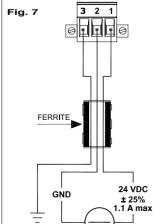
The RS232 port is optional. Considering that the RS232 port is not insulated, it is necessary to disconnect the power to the Control Panel and to the device to be connected before connecting them. The connection cable must be screened and not exceed a length of 3 metres.

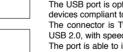
Entry into service

For the entry in service of the device (configuration and loading the application program) Please refer to the installation manual and use GF_Project Vx, freely downloadable from the site www.gefran.it.









USB 2.0, with speed up to 480 Mbit/s. power USB devices.

not exceed 2 mm.

