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UniOP eTOP Series 500 Operating Instructions

Basic User's Manual for eTOP Series 500 **Touchscreen Products**

Exor International S.p.A. MANUGENETOP5xx UniOP Ver. 1.06





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Introduction

The operational guidelines described below is information which relates to the device, installation, transportation, storage, assembly, use and maintenance.

This Operating Instruction describes the main features of the UniOP operator panels. The Manual refers to the following models:

eTOP504 Operato	r interface with TFT color 4.3" display touchscreen
eTOP506 Operato	r interface with TFT color 5.7" display touchscreen
eTOP507 Operato	r interface with TFT color 7" widescreen display touchscreen
eTOP510 Operato	r interface with TFT color 10.4" display touchscreen
eTOP512 Operato	r interface with TFT color 12.1" display touchscreen
eTOP513 Operato	r interface with TFT color 13.3" widescreen display touchscreen
eTOP515 Operato	r interface with TFT color 15" display touchscreen



Safety Guide

The manual contains safety standards that must be respected for the personal safety and to avoid damage. Indications of attention are divided into three levels of severity:

DANGER: indicates a failure to observe safety rules and such failure may cause death or serious injuries.



ATTENTION: indicates a failure to observe safety rules and that deficiency may cause damage.



CAUTION: indicates a failure to observe safety rules and that deficiency may cause defects to the equipment or inconsistencies.



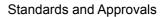


1 Product Overview

The UniOP eTOP Series 500 HMI products combine state-of-the-art features and top performance with an oustanding design. They are the ideal choice for all demanding HMI applications including factory and building automation.

The eTOP Series 500 HMI panels have been designed to run the JMobile software.

- JMobile runtime included. Full compatibility with JMobile Studio.
- Full vector graphic support. Native support of SVG graphic objects. Trasparency and alpha blending.
- Full object dynamics: control visibility and transparency, move, resize, rotate any object on screen. Change properties of basic and complex objects.
- TrueType fonts.
- Multilanguage applications. Easily create and manage your applications in multiple languages to meet global requirements. Far East languages are supported. Tools available in JMobile Studio support easy third-party translations and help reducing development and maintenance costs of the application.
- Data display in numerical, text, bargraph, analog gauges and graphic image formats.
- Rich set of state-of-the-art HMI features: data acquisition, alarm handling, scheduler and timed actions (daily and weekly schedulers, exception dates), recipes, users and passwords, RSS feeds, rotating menus.
- Includes support for a wide range of communication drivers for Factory systems.
- Multiple drivers communication capability.
- Remote monitoring and control. Client-Server functionality.
- Off-line simulation with JMobile Studio.
- Powerful scripting language for automating HMI applications. Script debugging improves efficiency in application development.
- Rich gallery of vector symbols and objects.
- Project templates.
- Optional plug-in modules for fieldbus systems, I/O and controllers.





2 Standards and Approvals

The products have been designed for use in an industrial environment in compliance with the 2004/108/ EC EMC Directive.

The products have been designed in compliance with: EN 61000-6-4 EN 55011 Class A

EN 61000-6-2	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6

The installation of these devices into the residential, commercial and light-industrial environments is allowed only in the case that special in measures are taken in order to ensure conformity to EN 61000-6-3.

The products are in compliance with the Restrictions on Certain Hazardous Substances (RoHS) Directive 2002/95/EC

In compliance with the above regulations the products are CE marked.

Product Identification

The product may be identified through a plate attached to the rear cover. You will have to know the type of unit you are using for correct usage of the information contained in the guide. An example of this plate is shown in the figure below:



eTOP504 ETOP504U101 05/11 09994847559 040100A0100000 product model name product part number month/year of production serial number version id of the product



3 Technical Specifications

Touch screen technology	Resistive	
Back-up battery	3V 50mAh Lithium, rechargeable, not user model VL2330.	-replaceable,
Fuse	Automatic	
Serial Port	RS-232, RS-485, RS-422 software configura	able
User memory	Flash 128Mb for eTOP504, 506, 507 Flash 256Mb for eTOP510, 512, 513, 515	
Recipe memory	Flash	
Hardware clock	Clock/Calendar with back-up battery	
Accuracy RTC (at 25°C)	<100ppm	
Environmental conditions	A1 .	
Operating temperature (surrounding air temperature)	0 ÷ +50°C	EN60068-2-14
Storage temperature	-20 ÷ +70°C	EN60068-2-14
Operating and storage humidity	5 ÷ 85 % RH not-condensing	EN60068-2-30
Vibrations	5 ÷ 9 Hz, 7 mm 9 ÷ 150 Hz, 1 g	EN60068-2-6
Shock	± 50 g, 11 ms, 3 pulses per axis	EN60068-2-27
Protection class	IP66 front panel *	EN 60529

* The front face of the UniOP unit, installed in a solid panel, has been tested using conditions equivalent to the standards shown in the "Environmental conditions". Even though the level of resistance UniOP unit is equivalent to these standards, oils that should have no effect on the UniOP can possibly harm the unit. This can occur in areas where either vaporized oils are present, or where low viscosity cutting oil are allowed to adhere to the unit for long periods of time. If the front face protection sheet on the UniOP becomes peeled off, these conditions can lead to the ingress of oil into the UniOP and separate protection measures are suggested.

If the installation gasket is used for a long period of time, or if the unit and its gasket are removed from the panel, the original level of the protection cannot be guaranteed.



Electromagnetic Compatibility (EMC)

Radiated disturbance test Electrostatic discharge immunity test	Class A 8 kV (air electrostatic discharge) 4 kV (contact electrostatic discharge)	EN 55011 EN 61000-4-2
Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ÷ 1 GHz, 10V/m 1,4 GHz ÷ 2 GHz, 3 V/m 2 GHz ÷ 2.7 GHz, 1 V/m	EN 61000-4-3
Burst immunity test	± 2 KV DC power port ± 1 KV signal line	EN 61000-4-4
Surge immunity test	 ± 0,5 KV DC power port (line to earth) ± 0,5 KV DC power port (line to line) ± 1 KV signal line (line to earth) 	EN 61000-4-5
Immunity to conducted disturbances inducted by radiofrequency field	0.15 ÷ 80 MHz, 10V	EN 61000-4-6
Voltage dips, short interruptions and voltage variations immunity test	Port: AC mains; Level: 100% duration: 1 cycle and 250 cycles (50 40% duration: 10 cycles (50Hz); 70% duration: 25 cycles (50Hz); Phase: 0°-180°	Hz);
Test executed on the 230Vac side of the Ex		EN 61000-4-11
Durability information		
Backlight service life (LED type)	40000 Hrs. or more (Time of continuos operation until the brigh backlight reaches 50% of the rated value w sorrounding air temperature is 25°C) - see	hen the
Front foil (without directly exposure to sunlight or UV ray)	10 years if the surrounding air temperature	is 25°C
UV Resistance	Indoor applications: After 300 hours cycled QUV accelerated weathering, some yellow brittleness may be present see Note 2.	
Touch screen reliability	> 1 milion operations	
Note 1: Extended use in environments whe degrade backlight quality/reliability/durabilit	re the surrounding air temperature is 40°C or y.	higher may

Note 2: Solvent resistance:

Contact for 1/2 hour at 21°C, No visible effect: Acetone, Butyl Cellosolve, Cyclohexanone, Ethyl Acetate, Hexane, Isopropyl Alcohol, MEK, Methylene Chloride, Toluene, Xylene Contact for 24 hours at 49°C, No visible effect: Coffee, Ketchup, Lemon Juice, Mustard (slight yellow stain), Tea, Tomato juice.



4 Technical Data

Model	eTOP504	eTOP506	
Display / Backlight	TFT Color / LED	TFT Color / LED	
Colors	64K	64K	
Resolution	480X272	320x240	
Diagonal (inches)	4.3"	5.7"	
Dimming	yes	yes	
User memory flash	128MB	128MB	
SD card slot	yes	yes	
Recipe memory	Yes. Flash memory storage limited only by available memory	Yes. Flash memory storage limited only by available memory	
Serial Port	RS-232,RS-485 RS-422 DB9 female software configurable	RS-232,RS-485 RS-422 DB9 female software configurable	
Ethernet port	2 10/100 Mbit with integrated switch	2 10/100 Mbit with integrated switch	
USB port	1 Host interface version 2.0 and 1.1	2 Host interface, 1 version 2.0, 1 version 2.0 and 1.1	
Expansion slot	1 Optional Plugin	2 Optional Plugin	
Battery	rechargeable	rechargeable	
Real Time Clock	yes	yes	
Voltage	18-30VDC	18-30VDC	
Current rating (at 24VDC)	0.4A	0.65A	
Weight	1 Kg	1 Kg	



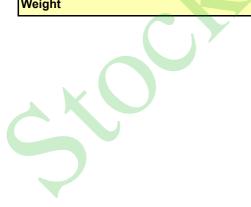


Model	eTOP507	eTOP510
Display / Backlight	TFT Color / LED	TFT Color / LED
Colors	64K	64K
Resolution	800X480	800x600
Diagonal (inches)	7" widescreen	10.4"
Dimming	yes	yes
User memory flash	128MB	256MB
SD card slot	yes	yes
Recipe memory	Yes. Flash memory storage limited only by available memory	Yes. Flash memory storage limited only by available memory
Serial Port	RS-232,RS-485 RS-422 DB9 female software configurable	RS-232,RS-485 RS-422 DB9 female software configurable
Ethernet port	2 10/100 Mbit with integrated switch	2 10/100 Mbit with integrated switch
USB port	2 Host interface, 1 version 2.0, 1 version 2.0 and 1.1	2 Host interface, 1 version 2.0, 1 version 2.0 and 1.1
Expansion slot	2 Optional Plugin	2 Optional Plugin
Battery	rechargeable	rechargeable
Real Time Clock	yes	yes
Voltage	18-30VDC	18-30VDC
Current rating (at 24VDC)	0.7A	1 A
Weight	1 Kg	2.1 Kg





Model	eTOP512	eTOP513
Display / Backlight	TFT Color / LED	TFT Color / LED
Colors	64K	64K
Resolution	800X600	1280x800
Diagonal (inches)	12.1"	13.3" widescreen
Dimming	yes	yes
User memory flash	256MB	256MB
SD card slot	yes	yes
Recipe memory	Yes. Flash memory storage limited only by available memory	Yes. Flash memory storage limited only by available memory
Serial Port	RS-232,RS-485 RS-422 DB9 female software configurable	RS-232,RS-485 RS-422 DB9 female software configurable
Ethernet port	2 10/100 Mbit with integrated switch	2 10/100 Mbit with integrated switch
USB port	2 Host interface, 1 version 2.0, 1 version 2.0 and 1.1	2 Host interface, 1 version 2.0, 1 version 2.0 and 1.1
Expansion slot	2 Optional Plugin	2 Optional Plugin
Battery	rechargeable	rechargeable
Real Time Clock	yes yes	
Voltage	18-30VDC	18-30VDC
Current rating (at 24VDC)	1.2A	1.2A
Weight	2.8 Kg	2.8 Kg



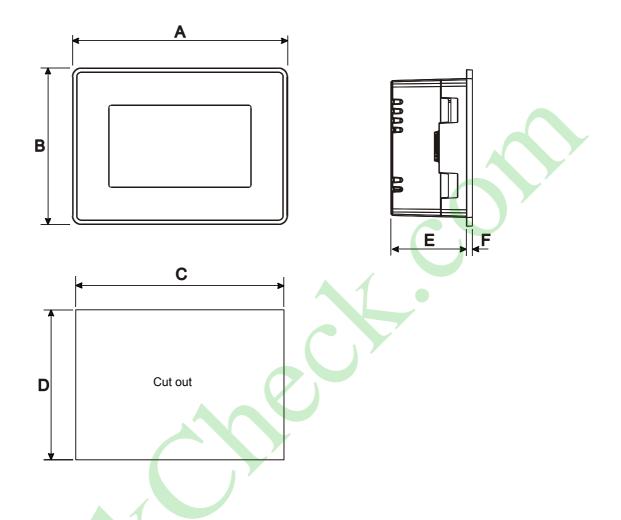


USB port2 Host interface, 1 version 2.0, 1 version 2.0 and 1.1Expansion slot2 Optional PluginBatteryrechargeableReal Time ClockyesVoltage18-30VDC	Display / Backlight	
Resolution1024X768Diagonal (inches)15"DimmingyesUser memory flash256MBSD card slotyesRecipe memoryYes. Flash memory storage limited only by available memorySerial PortRS-232,RS-485 RS-422 software configurableEthernet port2USB port2Liber port2Serial Sold2USB port2Serial Port2Recipe memory3Serial PortRS-232,RS-485 RS-422 software configurableEthernet port2USB port2Liber port2Serial Port2Serial Port2Recipe memory3Serial Port1000 Mbit with integrated switchSerial Port2Serial Port2Serial Port2Serial Port2Display3Serial Port3Serial Port3Recipe port3Serial Port3Serial Port3Serial Port3Serial Port3Serial Port3Serial Port3Serial Port1000 Mbit with integrated switchSerial Port3Serial Port3Serial Port3Serial Port3Serial Port3Serial Port3Serial Port3Serial Port3Serial Port3<		TFT Color / LED
Diagonal (inches)15"DimmingyesUser memory flash256MBSD card slotyesRecipe memoryYes. Flash memory storage limited only by available memorySerial PortRS-232,RS-485 RS-422 software configurableEthernet port2<10/100 Mbit with integrated switchUSB port2 <host 1="" 2.0,<br="" interface,="" version=""></host> 1 version 2.0 and 1.1Expansion slot2 <optional plugin<br=""></optional> rechargeableReal Time ClockyesVoltage18-30VDC	Colors	64K
DimmingyesUser memory flash256MBSD card slotyesRecipe memoryYes. Flash memory storage limited only by available memorySerial PortRS-232,RS-485 RS-422 software configurableEthernet port2<10/100 Mbit with integrated switchUSB port2 Host interface, 1 version 2.0 1 version 2.0 and 1.1Expansion slot2 Optional Plugin rechargeableBatteryrechargeableReal Time ClockyesVoltage18-30VDC	Resolution	1024X768
User memory flash256MBSD card slotyesRecipe memoryYes. Flash memory storage limited only by available memorySerial PortRS-232,RS-485 RS-422 software configurableEthernet port2 10/100 Mbit with integrated switchUSB port2 Host interface, 1 version 2.0 1 version 2.0 and 1.1Expansion slot2 Optional PluginBatteryrechargeableReal Time ClockyesVoltage18-30VDC	Diagonal (inches)	15"
SD card slotyesRecipe memoryYes. Flash memory storage limited only by available memorySerial PortRS-232,RS-485 RS-422 software configurableEthernet port2 10/100 Mbit with integrated switchUSB port2 Host interface, 1 version 2.0 1 version 2.0 and 1.1Expansion slot2 Optional Plugin rechargeableReal Time ClockyesVoltage18-30VDC	Dimming	yes
Recipe memoryYes. Flash memory storage limited only by available memorySerial PortRS-232,RS-485 RS-422 software configurableEthernet port2 10/100 Mbit with integrated switchUSB port2 Host interface, 1 version 2.0 1 version 2.0 and 1.1Expansion slot2 Optional Plugin rechargeableBatteryrechargeableReal Time ClockyesVoltage18-30VDC	User memory flash	256MB
Imited only by available memorySerial PortRS-232,RS-485 RS-422 software configurableEthernet port2 10/100 Mbit with integrated switchUSB port2 Host interface, 1 version 2.0 1 version 2.0 and 1.1Expansion slot2 Optional PluginBatteryrechargeableReal Time ClockyesVoltage18-30VDC	SD card slot	yes
RS-422 software configurableEthernet port2 10/100 Mbit with integrated switchUSB port2 Host interface, 1 version 2.0 1 version 2.0 and 1.1Expansion slot2 Optional PluginBatteryrechargeableReal Time ClockyesVoltage18-30VDC	Recipe memory	limited only by available
USB port2 Host interface, 1 version 2.0, 1 version 2.0 and 1.1Expansion slot2 Optional PluginBatteryrechargeableReal Time ClockyesVoltage18-30VDC	Serial Port	RS-422
1 version 2.0 and 1.1Expansion slot2 Optional PluginBatteryrechargeableReal Time ClockyesVoltage18-30VDC	Ethernet port	
Battery rechargeable Real Time Clock yes Voltage 18-30VDC	USB port	2 Host interface, 1 version 2.0, 1 version 2.0 and 1.1
Real Time Clock yes Voltage 18-30VDC	Expansion slot	2 Optional Plugin
Voltage 18-30VDC	Battery	rechargeable
	Real Time Clock	yes
Current rating (at 24VDC) 1.40A	Voltage	18-30VDC
	Current rating (at 24VDC)	1.40A
Weight 3.5 Kg	Weight	3.5 Kg

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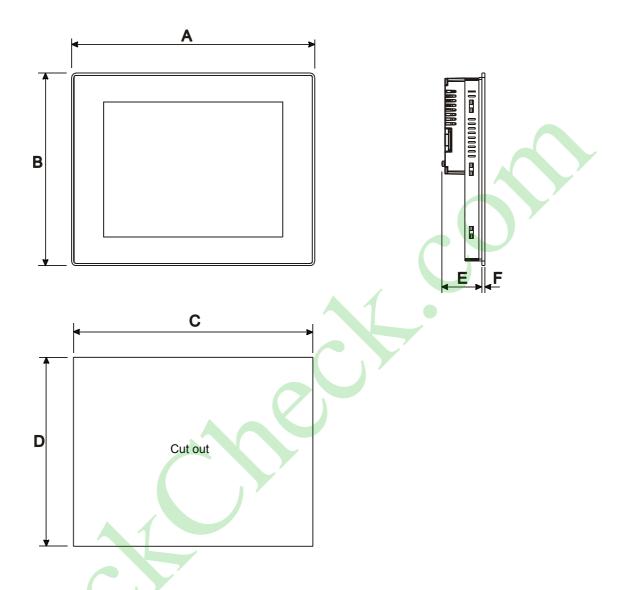


4.1 Dimensions



MODEL	А	В	С	D	E	F
eTOP504	149mm/5.86"	109mm/4.29"	136mm/5.35"	96mm/3.78"	56mm/2.40"	4mm/0.16"





MODEL	Α	В	С	D	Е	F
eTOP506	187mm/7.36"	147mm/5.79"	176mm/6.90"	136mm/5.35"	47mm/1.85"	4mm/0.16"
eTOP507	187mm/7.36"	147mm/5.79"	176mm/6.90"	136mm/5.35"	47mm/1.85"	4mm/0.16"
eTOP510	287mm/11.3"	232mm/9.13"	276mm/10.86"	221mm/8.70"	56mm/2.20"	4mm/0.16"
eTOP512	336mm/13.22"	267mm/10.51"	326mm/12.83"	256mm/10.07"	56mm/2.20"	4mm/0.16"
eTOP513	336mm/13.22"	267mm/10.51"	326mm/12.83"	256mm/10.07"	56mm/2.20"	4mm/0.16"
eTOP515	392mm/15.43"	307mm/12.08"	381mm/15"	296mm/11.65"	60mm/2.36"	4mm/0.16"



4.2 Installation Environment

The equipment is not intended for continuous exposure to direct sunlight. This might accelerate the aging process of the front panel film.

The equipment is not intended for installation in contact with corrosive chemical compounds. Check the resistance of the front panel film to a specific compound before installation.

Do not use tools of any kind (screwdrivers, etc.) to operate the touch screen of the panel.

In order to meet the front panel protection classifications, proper installation procedure must be followed:

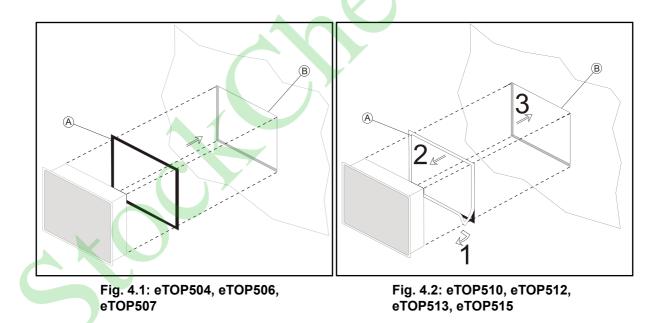
- the borders of the cutout must be flat
- screw up each fixing screw until the plastic bezel corner get in contact with the panel.
- the cutout for the panel must be of the dimensions indicated in this manual.

The IP66 is guaranteed only if:

- \bullet max deviation from the plane surface to the cut-out: ${\leq}0.5\text{mm}$
- thickness of the case where is mounted the equipment: from 1,5mm to 6mm
- max surface roughness where the gasket is applied: \leq 120 um

Applying the gasket

The gasket should be applied on the rear of the frame.

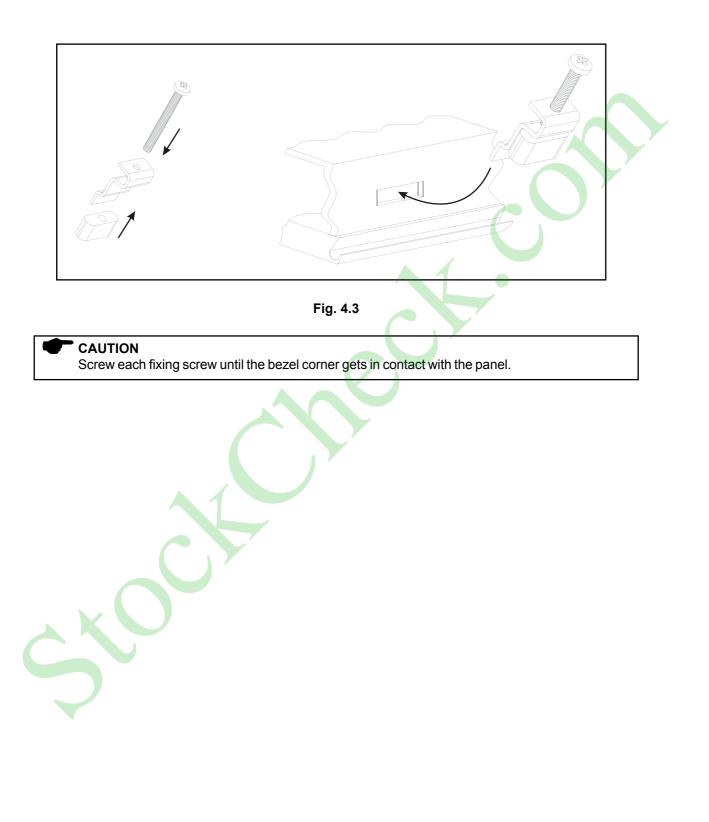


- A. Gasket
- B. Installation cut-out



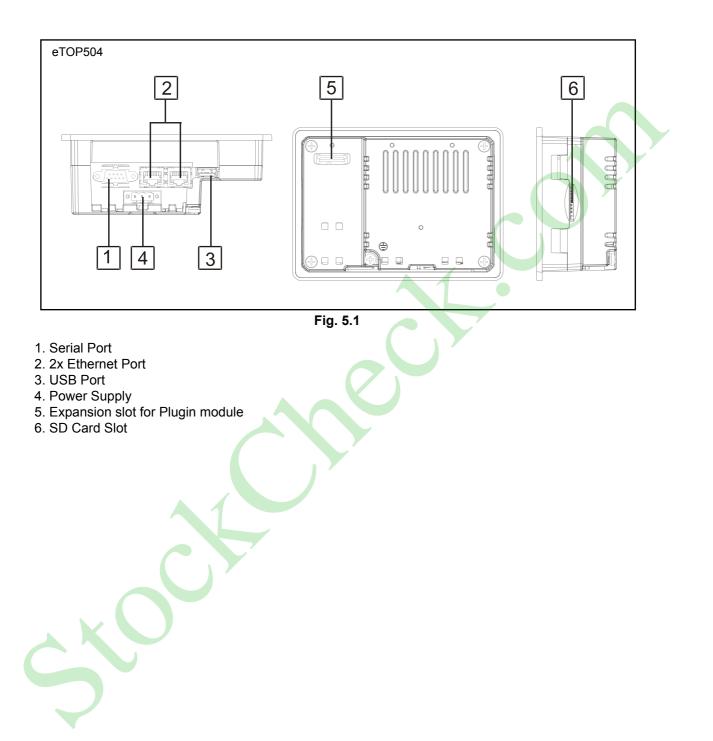
4.3 Installation Procedure

Place the fixing brackets as shown in figure (Fig. 4.3).

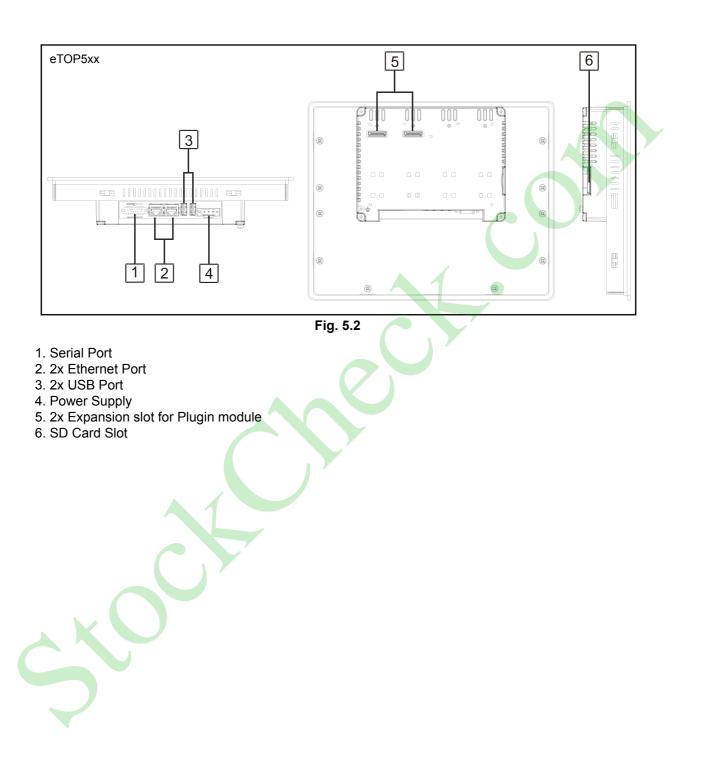




5 Connections









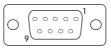
5.1 Serial Port

The serial port is used to communicate with the PLC or with another type of controller. Different electrical standards are available for the signals in the PLC port connector: RS-232, RS-422, RS-485.

The serial port is software programmable. Make sure you select the appropriate interface in the programming software.

RS-232

Pin	Description
1	GND
2	
3	ТХ
4	RX
5	
6	+5V output
7	CTS
8	RTS
9	



Pin	Description
1	GND
2	
3	CHA-
4	CHB-
5	
6	+5V output
7	CHB+
8	CHA+
9	

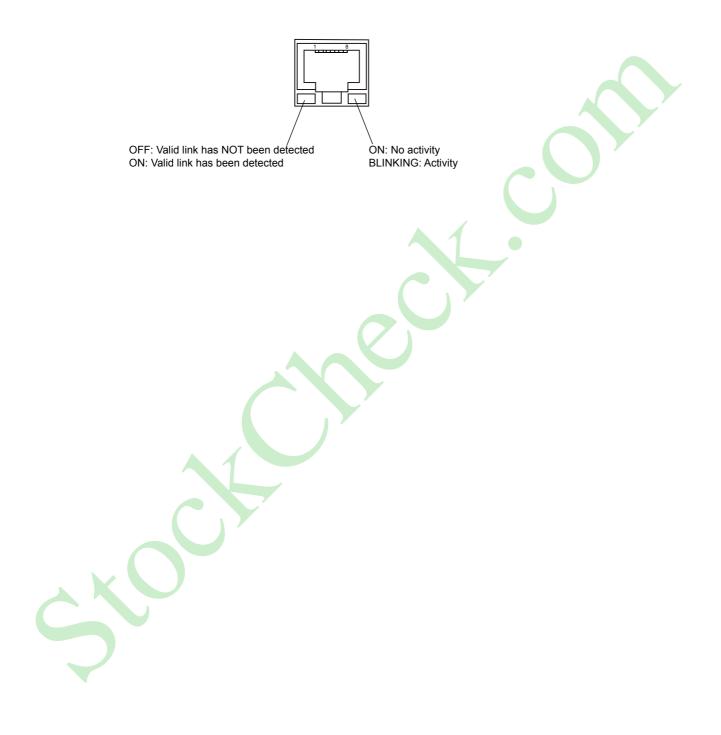
To operate in RS485 pins 4-3 and 8-7 must be connected externally.

The communication cable must be chosen for the type of device being connected.



5.2 Ethernet Port

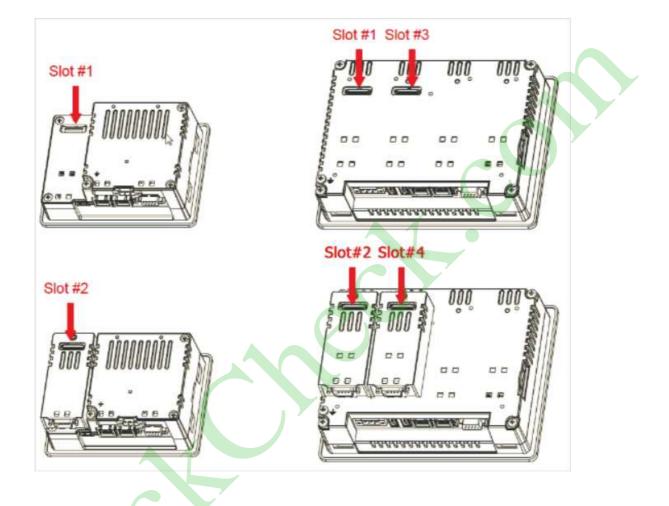
The Ethernet port have two status indicators. Please see description in figure.





5.3 Optional plugin module

eTOP500 serie panels have several optional plugin module, multiple modules configurations are possible.



Slot#2 and Slot#4 are available only if plugin module has the "bus extension connector".

Each slot carries three communication channels:

- 1 serial interface
- 1 CAN interface
- 1 SPI interface

Note: It is not possible to stack two modules that are using the same type of interface.



Below you can find relation between modules and max number of modules that can be used into eTOP500 serie panels, based on their Interface Type:

Module	Application	Max Modules	Interface Type	Bus Extension connector	
PLCM01	CAN	1 for eTOP50x 2 for eTOP51x	CAN	Y	
PLCM01-NE	CAN	1 for eTOP50x 2 for eTOP51x	CAN	N	
PLCM02	KNX	1	Serial	N	
PLCM03	Serial RS232	2	Serial	Y	
PLCM04	Serial RS485	2	Serial	Y	
PLCM05	CODESYS V2 License	1		Y	
PLCM06	Profibus DP	1	SPI	N	
PLIO03	Multifunction I/O	1	SPI	N	
PLIO06	Compact I/O	2	SPI	N	

Max modules refers to max number of modules can be plugged into the HMI (all slots),

If you are planning to use PLCM03 and PLCM04 (additional serial ports) you will obtain following "COM - Slot#" association:

- a module plugged in Slot#1 or into Slot#2 will be COM2,
- a module plugged in Slot#3 or into Slot#4 will be COM3.

If you are planning to use two PLCM01 (CAN interface) you will obtain following Slot# association:

- a module plugged in Slot#1 or into Slot#2 will be the CanPort 0,
- a module plugged in Slot#3 or into Slot#4 will be the CanPort 1.





6 Power Supply, Grounding and Shielding

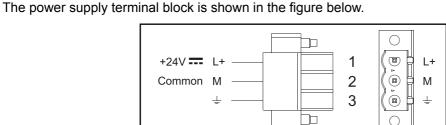


Fig. 6.1

Note: Ensure that the power supply has enough power capacity for the operation of the equipment.

The unit must always be grounded to earth. Grounding helps limit the effects of noise due to electromagnetic interference on the control system.

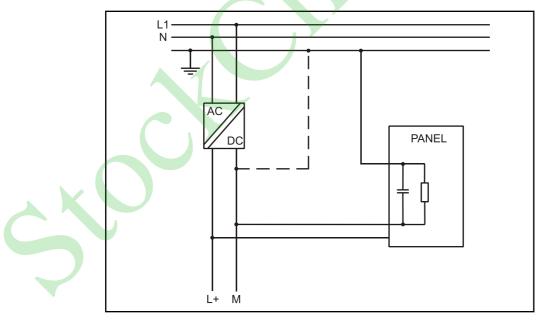
Earth connection will have to be done using either the screw or the faston terminal located near the power supply terminal block. A label helps identify the ground connection. Also connect to ground the terminal 3 on the power supply terminal block.

The power supply circuit may be floating or grounded. In the latter case, connect to ground the power source common as shown in figure (see below) with a dashed line.

When using the floating power scheme, note that the panes internally connects the power common to ground with a $1M\Omega$ resistor in parallel with a 4,7nF capacitor.

The power supply must have double or reinforced insulation.

The suggested wiring for the power supply is shown below.





All the electronic devices in the control system must be properly grounded. Grounding must be performed according to applicable regulations.



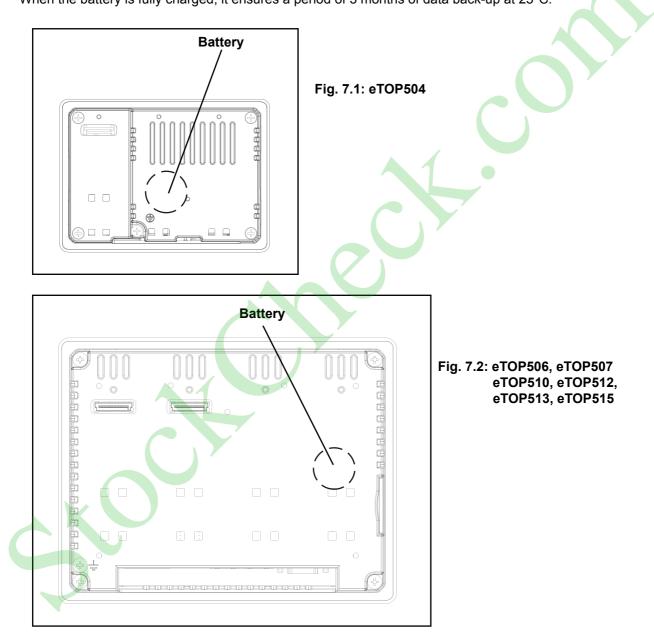
7 Battery

These devices are equipped with rechargeable Lithium battery, not user-replaceable.

- The following information is maintained by the battery:
- hardware real-time clock (date and time)

Charge:

At first installation must be charged for 48 hours. When the battery is fully charged, it ensures a period of 3 months of data back-up at 25°C.



ATTENTION

'!

Dispose of batteries according to local regulations.



8 Cleaning Faceplates

The equipment must be cleaned only with a soft cloth and neutral soap product. Do not use solvents.

9 Getting Started

UniOP 500 series panels must be programmed with the programming software JMobile Studio. To program a panel you will have to connect the panel to a personal computer running JMobile Studio software package; the panel must be in Configuration mode to be programmed. UniOP 500 series units are programmed via the Ethernet interface.

The software package JMobile is a Windows[™] application and must be properly installed.

JMobile uses the personal computer Ethernet interface to communicate with the target device. Make sure that the proper firewall policy is configured in order to allow JMobile Studio to access the network.

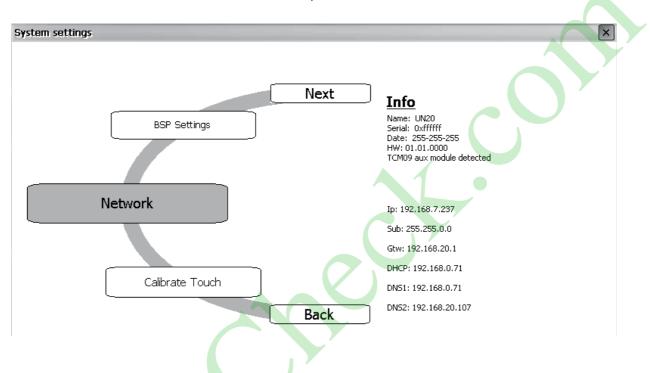
The version of the JMobile Studio used must be compatible with the JMobile runtime version installed on the panel to be programmed.



10 System Settings

The UniOP panels have a system settings tool to allow basic and preliminary settings to the unit. The System settings tool comes in the shape of a rotating menu with navigation buttons at top and bottom to scroll between the available options. The tool is shown in the picture below.

On the left side the several components and functions are highlighted and, per each of them, the right side ("Info" pane) shows the information about the current version, when applicable. In the picture below it is showed the version of the Main OS component.



System Settings has two operating modes:

User Mode and System Mode.

The difference between them is only in the number of available options.

System settings in **User Mode** is activated from the context menu. The context menu can be recalled by clicking and holding any unused area of the touchscreen for a few seconds. Default holding time is 2 sec. Holding time is a runtime parameter that can be changed.

System settings in **System Mode** can be activated with the so-called Emergency system access procedure. This procedure consist in tapping in the middle of the touchscreen with a finger at a high frequency while the systemis powering up. The Emergency procedure can only be accessed at power-up.



"**User mode**" is the simplest possible interface where a generic user can get access to the basic settings of the panel:

Calibrate Touch: Network:	allows to calibrate the touch screen interface allows to change the options of the panel on-board network card
Time:	allows to change the panel RTC options, including time zone and DST
Display settings: BSP settings:	automatic backlight turnoff and brightness adjustment allows to check the BSP (Board Support Package) version (example 2.37), check the operating hours timers for the unit and separately for the backlight, enable/disable the buzzer, enable/disable the use of the "low battery" front LED indicator
Plugin list:	allows to check the presence of optional plugin modules installed.

"System Mode" is the complete interface of the System Settings tool where all the available options are available; in addition to the options available in the "User Mode" we have the following important options:

Format Flash:	allows to format the internal panel flash disk
Resize Image Area:	allows to resize the flash portion reserved to store the
	splash screen image displayed by the unit at power
	up; default settings are normally ok for all the units
Download Configuration OS:	allows to check current version and upgrade the
Dominicaa oomigaration oo.	back-up operating system, see below in the next
	chapter for additional details
Download Main OS:	allows to check current version and upgrade the main
Download Main CS.	operating system, see below in the next chapter for
	additional details
Download Splash Image:	allows changing the splash screen image displayed
Download Splash inlage.	by the unit at power up; the image should be provide
	in a specific format. We suggest to update Splash
	Screen Image directly from Studio software which
	supports this feature starting from V 1. 50
Download Bootloader:	allows to check actual version of the system boot
Download Bootloader.	loader and to upgrade it, see below for additional
	details
Only for eTOP510, eTOP512, eTOP513 and e	
Only for eforsite, eforsitz, eforsits and e	10F515
Download Main FPGA:	allows to check current version and upgrade the main
Download Main I P GA.	FPGA firmware, see below for additional details
Download Safe FPGA:	allows to check current version and upgrade the
Download Sale FFGA.	back-up (safe) copy of the FPGA Firmware, see
	below for additional details
Download System Supervisor	
Download System Supervisor:	allows to check current version and upgrade the
▼	system supervisor firmware responsible for RTC
	and power supply handling, see below for additional

Note: the System Settings tool includes also other options, not described and not documented at this moment

details



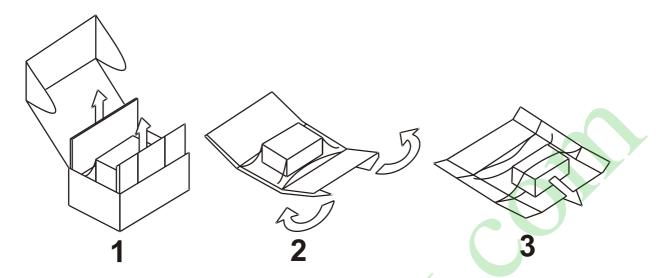
11 LED Indicator on Front Panel

The table below shows the symbol of the LED indicator dedicated to special functions.

LED Indicator				
Symbol	Color	Status	Meaning	
6	red	ON	Hardware fault / Battery low	
	green	ON	Normal operation	
		BLINK	Communication error	



12 **Unpacking and Packing Instructions**



to repack the unit, please follow the instructions backwards.

MANUGENETOP5xx UniOP **Operating Instructions** VER 1.06



AVON, MA 02322 T:(508)513-1000