

# eTOP Series 600 Operating Instructions

Basic User's Manual for eTOP Series 600 Touchscreen Products

Exor International S.p.A. MANUGENETOP6xx Ver. 1.03



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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 Exor operator panels. The Manual refers to the following models:

eTOP605 Operator interface with TFT color 5" widescreen display touchscreen

eTOP607M Operator interface with TFT color 7" widescreen display touchscreen, 1GHz CPU

eTOP610 Operator interface with TFT color 10.1" widescreen 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.



## **DANGER**

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



#### **ATTENTION**

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



## **CAUTION**



#### 1 Product Overview

The Exor eTOP Series 600 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 600 HMI panels have been designed to run the JMobile software.

- Designed for use with JMobile HMI software.
- 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.
- On-line and 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.
- 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 2014/30/EU 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 EN 61000-4-8

EN60945

EN 60079-0

EN 60079-15

EN 60079-31

IECEX IECEX ULD 16.0007X

IEC 60079-0, Ed.6 Ex nA IIC T4 Gc -20<Tamb<+60°C (0≤Tamb≤+50°C for PLIO03)

IEC 60079-15, Ed.4 Ex tc IIIC T105°C Dc

IEC 60079-31, Ed.2

ATEX DEMKO 16 ATEX 1683X

EN 60079-0: 2012+A11:2013 II 3G Ex nA IIC T4 Gc -20<Tamb<+60°C (0≤Tamb≤+50°C for PLIO03)

EN 60079-15: 2010 II 3D Ex tc IIIC T105°C Dc

EN 60079-31: 2014

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.

#### Special instruction for use

- The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC/EN 60664-1.
- The equipment shall be installed in an enclosure that provides a degree of protection not less than IP 54 in accordance with IEC/EN 60079-15.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.
- Care shall be taken not to allow layers of dust to form on the graphic panel in a way that might cause the accumulation of static charges.

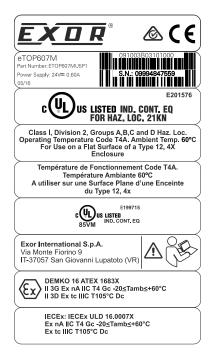


#### **Product Identification**

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:

Note: the eTOP607M label is used as an example for eTOP600 Series



product model name eTOP607M

product part number ETOP607MU5P1

month/year of production 05/16

serial number 09994847559

version id of the product 091003B03101000

manufacturer address and Exor International S.p.A. read instruction warning Via Monte Fiorino 9

IT-37057 San Giovanni Lupatoto (VR)

ATEX Marking DEMKO 16 ATEX 1683X

II 3G Ex nA IIC T4 Gc -20<Tamb<+60°C

II 3D Ex tc IIIC T105°C Dc

IECEx Marking IECEx: IECEx ULD 16.0007X

Ex nA IIC T4 Gc -20<Tamb<+60°C

Ex tc IIIC T105°C Dc



## 3 Technical Specifications

Touchscreen technology Projected capacitive

**Back-up battery** 3V 50mAh Lithium, rechargeable, not user-replaceable,

model VL2330.

**Fuse** Automatic

**Serial Port** RS-232, RS-485, RS-422 software configurable

Flash 128MB for eTOP605 **User memory** 

Flash 256MB for eTOP607M, eTOP610

Recipe memory Flash

Hardware clock Clock/Calendar with back-up battery

Accuracy RTC (at 25°C) <100ppm

**Environmental conditions** 

-20 ÷ +60°C (vertical installation) EN 60068-2-14 Operating temperature (surrounding

Plug-in modules and USB devices air temperature) may limit max temperature to +50°C

EN 60068-2-14 -20 ÷ +70°C Storage temperature

Operating and storage humidity 5 ÷ 85 % RH not-condensing EN 60068-2-30 5 ÷ 9 Hz, 7 mm <sub>p-p</sub> **Vibrations** EN 60068-2-6

9 ÷ 150 Hz, 1 g

Shock ± 50 g, 11 ms, 3 pulses per axis EN 60068-2-27

Front panel IP66, Rear IP20 **Protection class** EN 60529

Electromagnetic Compatibility (EMC)

Radiated disturbance test Class A EN 55011 8 kV (air electrostatic discharge) Electrostatic discharge immunity test EN 61000-4-2

4 kV (contact electrostatic discharge)

Radiated, radio-frequency, 80 MHz ÷ 1 GHz, 10V/m EN 61000-4-3

electromagnetic field immunity test 1,4 GHz ÷ 2 GHz, 3 V/m

2 GHz ÷ 2.7 GHz, 1 V/m

**Burst immunity test** ± 2 KV dc power port EN 61000-4-4 ± 1 KV signal line

Surge immunity test ± 0,5 KV dc power port (line to earth)

EN 61000-4-5

± 0,5 KV dc power port (line to line) ± 1 KV signal line (line to earth)

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 (50Hz);

40% duration: 10 cycles (50Hz); 70% duration: 25 cycles (50Hz);

Phase: 0°-180°

Test executed on the 230Vac side of the Exor International S.p.A. Power Supply EN 61000-4-11

**Durability information** 

**Backlight service life** 40000 Hrs. or more

(LED type) (Time of continuos operation until the brightness of the

backlight reaches 50% of the rated value when the sorrounding air temperature is 25°C) - see Note 1

Note 1: Extended use in environments where the surrounding air temperature is 40°C or higher may degrade backlight quality/reliability/durability.

MANUGENETOP6xx Operating Instructions **VER 1.03** 



## **4 Technical Data**

Model	eTOP605	eTOP607M
Display / Backlight	TFT Color / LED	TFT Color / LED
Colors	64K	64K
Resolution	800X480	800X480
Diagonal (inches)	5" widescreen	7" widescreen
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	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	24Vdc (*)	24Vdc (*)
Current rating (at 24VDC)	0.6A	0.6A
Weight	1 Kg	1.3 Kg

(\*) 10-32Vdc
For applications requiring compliance with EN 61131-2 and specifically in reference to 10 ms voltage dips, the power supply range voltage is 18-32Vdc.



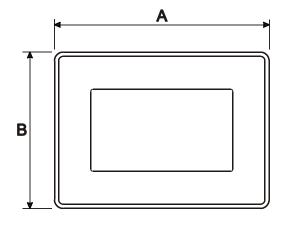
Model	eTOP610
Display / Backlight	TFT Color / LED
Colors	64K
Resolution	1280X800
Diagonal (inches)	10.1" widescreen
Dimming	yes
User memory flash	256MB
SD card slot	yes
Recipe memory	Yes. Flash memory storage limited only by available memory
Serial Port	RS-232,RS-485, RS-422 DB9 female software configurable
Ethernet port	2 10/100 Mbit with integrated switch
USB port	2 Host interface, 1 version 2.0, 1 version 2.0 and 1.1
Expansion slot	2 Optional Plugin
Battery	rechargeable
Real Time Clock	yes
Voltage	24Vdc (*)
Current rating (at 24VDC)	1.00A
Weight	1.7 Kg

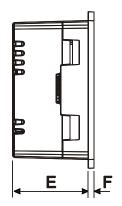
# (\*) 10-32Vdc

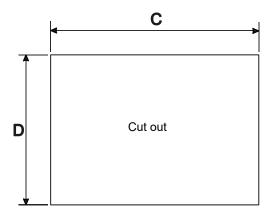
For applications requiring compliance with EN 61131-2 and specifically in reference to 10 ms voltage dips, the power supply range voltage is 18-32Vdc.



## **4.1 Dimensions**

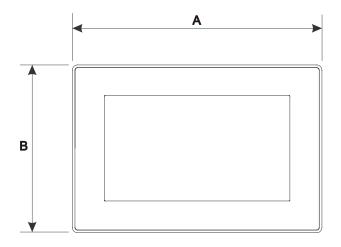


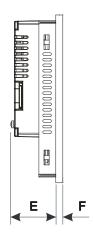


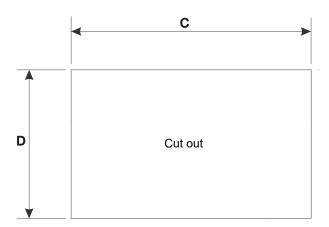


MODEL	Α	В	С	D	E	F
eTOP605	147mm/5.78"	107mm/4.21"	136mm/5.35"	96mm/3.78"	56mm/2.40"	8mm/0.31"









MODEL	Α	В	С	D	E	F
eTOP607M	187mm/7.36"	147mm/5.79"	176mm/6.90"	136mm/5.35"	47mm/1.85"	8mm/0.31"
eTOP610	282mm/11.1"	197mm/7.80"	271mm/10.67"	186mm/7.32"	56mm/2.20"	8mm/0.31"



#### **4.2 Installation Environment**

Avoid prolonged exposition to direct sunlight to avoid the risk of overheating the device.

The equipment is not intended for installation in contact with corrosive chemical compounds. Check the resistance of the front panel 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:

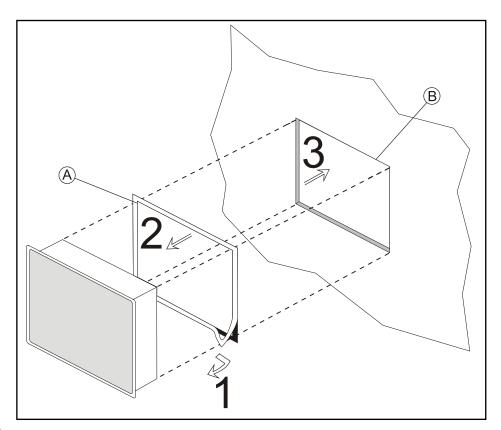
- the borders of the cutout must be flat
- screw up each fixing screw until the bezel corner get in contact with the panel.
- the cutout for the panel must be of the dimensions indicated in this manual.

The IP66 is guaranteed only if:

- max deviation from the plane surface to the cut-out: ≤0.5mm
- thickness of the case where is mounted the equipment: from 1,5mm to 6mm
- max surface roughness where the gasket is applied: ≦120 um

## Applying the gasket

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



- A. Gasket
- **B.** Installation cut-out



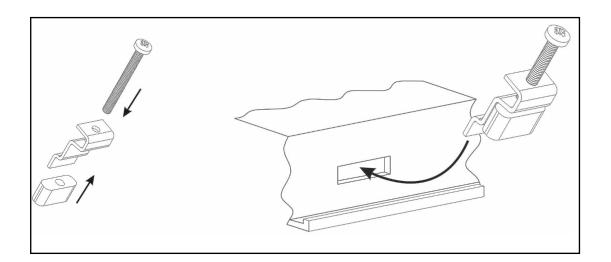
## 4.3 Safety instruction



For all installation notes, please refer to the Installation Guide provided with the product.

#### **4.4 Installation Procedure**

Place the fixing brackets contained in the fixing kit as shown in figure





## **CAUTION**

Tightening torque: 130Ncm or screw each fixing screw until the bezel corner gets in contact with the panel.



## **5 Connections**

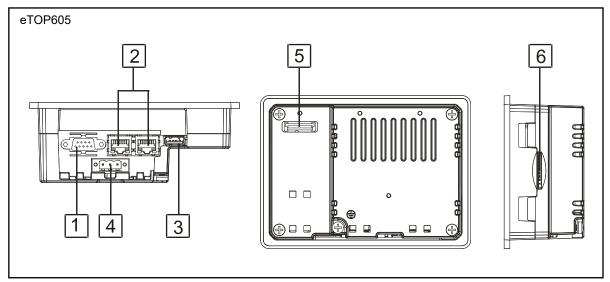


Fig. 5.1

- 1. Serial Port
- 2. 2x Ethernet Port
- 3. USB Port
- 4. Power Supply
- 5. Expansion slot for Plugin module
- 6. SD Card Slot



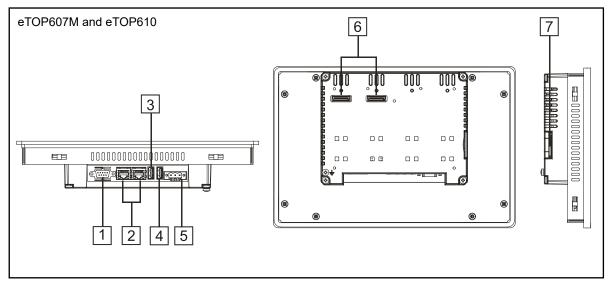


Fig. 5.2

- 1. Serial Port
- 2. 2x Ethernet Port
- 3. USB Port (version 2.0 1.1)
- 4. USB Port (version 2.0 High speed only)
- 5. Power Supply
- 6. 2x Expansion slot for Plugin module
- 7. SD Card Slot



#### **5.1 Serial Port**

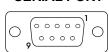
The serial port is used to communicate with the PLC or with another type of controller. Different electrical standards are available for the signals in the PLC port connector: RS-232, RS-422, RS-485.

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	TX
4	RX
5	
6	+5V output
7	CTS
8	RTS
9	

**SERIAL PORT** 



#### RS-422, RS-485

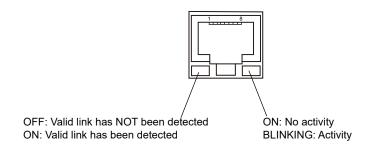
Pin	Description
1	GND
2	
3	CHA-
4	CHB-
5	
6	+5V output
7	CHB+
8	CHA+
9	

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**

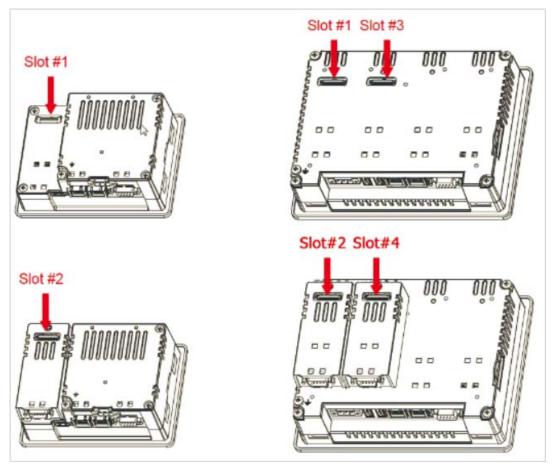
The Ethernet port have two status indicators. Please see description in figure.





#### 5.3 Optional plugin module

eTOP600 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 ATEX and IECEx marked and max number of modules that can be used into eTOP600 serie panels, based on their Interface Type:

Module	Application	Max Modules	Interface Type	Bus Extension connector
PLCM01	CAN	1 for eTOP507G 2 for eTOP507MG	CAN	Y
PLCM01-NE	CAN	1 for eTOP507G 2 for eTOP507MG	CAN	N
PLCM05	CODESYS License	1		Y
PLIO03	Multifunction I/O	1	SPI	N



#### **Product Identification**

Note: the PLCM01 label is used as an example for PLCM01 and PLCM05



product model name PLCM01

product part number PLCM01U0P1

month/year of production 05/16

serial number 09994847559

version id of the product 050100A00000000

manufacturer address and read instruction warning

Exor International S.p.A. Via Monte Fiorino 9

IT-37057 San Giovanni Lupatoto (VR)

ATEX Marking DEMKO 16 ATEX 1683X

II 3G Ex nA IIC T4 Gc -20≤Tamb≤+60°C

II 3D Ex tc IIIC T105°C Dc

IECEx Marking IECEx: IECEx ULD 16.0007X

Ex nA IIC T4 Gc -20≤Tamb≤+60°C

Ex tc IIIC T105°C Dc





product model name PLIO03

product part number PLIO03U0P1

month/year of production 05/16

serial number 09994847559

version id of the product 051201A00001000

manufacturer address and read instruction warning

Exor International S.p.A. Via Monte Fiorino 9

IT-37057 San Giovanni Lupatoto (VR)

ATEX Marking DEMKO 16 ATEX 1683X

II 3G Ex nA IIC T4 Gc 0≤Tamb≤+50°C

II 3D Ex tc IIIC T105°C Dc

IECEx Marking IECEx: IECEx ULD 16.0007X

Ex nA IIC T4 Gc 0≤Tamb≤+50°C

Ex tc IIIC T105°C Dc

PLCM01 / PLCM01-NE: Operating temperature -20°C to 60°C PLCM05: Operating temperature -20°C to 60°C

PLIO03: Operating temperature 0°C to 50°C (vertical installation), 12-30VDC

#### PLCM01, PLCM05 and PLIO03 electrical ratings:

- PLCM01: For electrical rating refers to the host eTOP600 models.
- PLCM05: For electrical rating refers to the host eTOP600 models and PLIO03 ratings
- PLIO03: 20xDigital Inputs voltage 12÷30 Vdc; 12xDigital Outputs voltage 12÷30 Vdc, 0.5A; 4xAnalog inputs 0÷10 Vdc, 4-20mA; 4xAnalog outputs: 0÷10 Vdc, 4-20mA



Below you can find relation between modules and max number of modules that can be used into eTOP600 serie panels, based on their Interface Type:

Module	Application	Max Modules	Interface Type	Bus Extension connector
PLCM02	KNX	1	Serial	N
PLCM03	Serial RS232	2	Serial	Υ
PLCM04	Serial RS485	2	Serial	Y
PLCM06	Profibus DP	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:

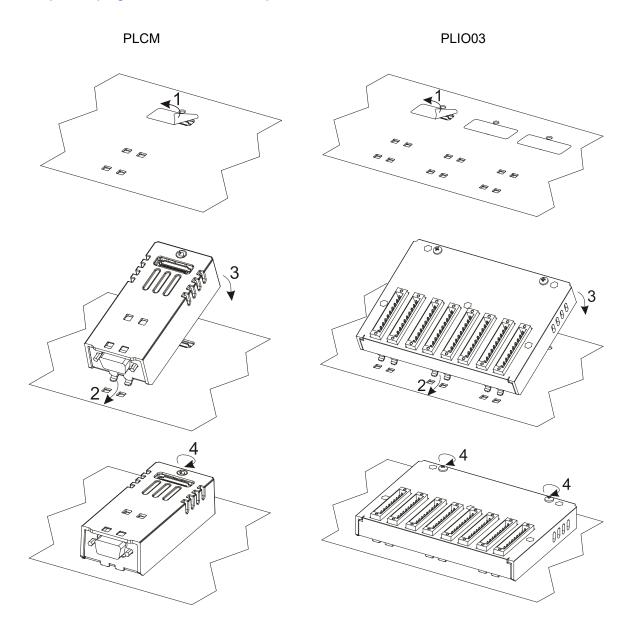
- a module plugged in Slot#1 or into Slot#2 will be COM2,
- a module plugged in Slot#3 or into Slot#4 will be COM3.

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.



## 5.4 Optional plugin module installation procedure





## 6 Power Supply, Grounding and Shielding

The power supply terminal block is shown in the figure below.

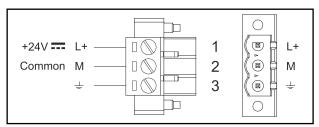


Fig. 6.1

3 conductor 1,5mmq wire size minimum, minimum temperature conductor rating 105°C.

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

The unit must always be grounded to earth with 1,5mmq wire size minimum. 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.

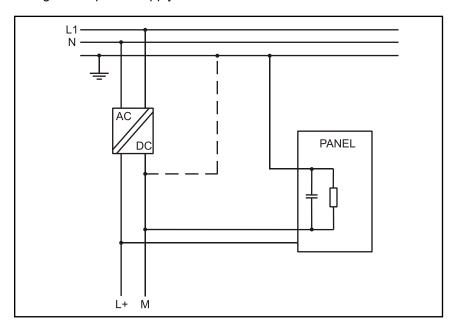


Fig. 6.2

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.

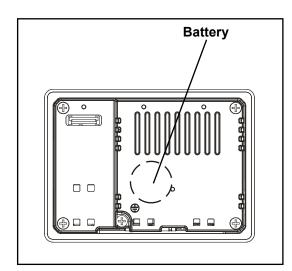


Fig. 7.1: eTOP605

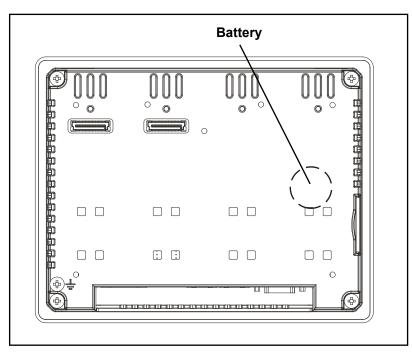


Fig. 7.2: eTOP607M, eTOP610

 $\Lambda$ 

#### **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

eTOP Series 600 HMI products must be programmed with the software JMobile Studio. JMobile Studio is a software tool that must be properly installed on a computer running Microsoft Windows.

There are two options to transfer a JMobile application project to a HMI device:

Ethernet Connect the HMI device to the computer with an Ethernet network connection. From

JMobile Studio choose the command Run/Download to target. You may have to ensure that the proper firewall policy has been configured in the computer to allow

JMobile Studio to access the network.

USB or SD Create an Update Package using JMobile Studio and copy it to a USB Flash drive or

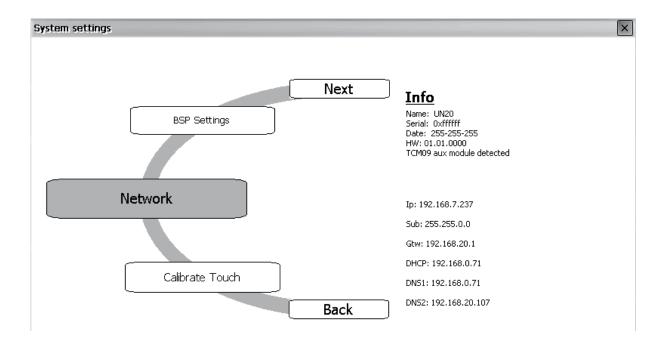
to an SD memory card.



## 10 System Settings

eTOP Series 600 HMI products include a System Settings tool to allow configuration of system

The user interface of System Settings tool is based on a rotating menu. Use navigation buttons Next/ Back to scroll through the available options.



The active item is highlighted on the left side. The info pane on the right side shows relevant information, when applicable. Touch the active item to start the associated function.

System Settings has two modes of operation:

**User Mode** 

JMobile runtime is running or the HMI device is in "factory default" status. **System Mode** JMobile runtime is not running or the HMI device has a software failure.

System Mode includes all options available in User Mode and offers in additions

commands dedicated to system upgrade and recovery.

Activation of System Settings in **User Mode**:

Factory default status JMobile runtime running Press "System Setting" button on the HMI screen Recall context menu and select "System Settings". To recall the context menu click and hold any unused area of the touchscreen for a few seconds. Default hold time is 2 seconds.



Recovery operation

#### Activation of Systems Settings in System Mode:

the HMI screen.

If JMobile runtime is running: recall context menu, select "System

Settings"

Select the Restart option then choose the "Configuration OS" option. **Note**: To recall the context menu click and hold any unused area of the touchscreen for a few seconds. Default hold time is 2 seconds. Use of an SD memory card prepared with a specific file is required.

Create and copy the file "\$0030D8\$.bin" to the SD card. Insert the card in the SD slot in the HMI. Apply power to the HMI. When the file

is detected, the HMI will show a visual feedback:

"Tap Tap detected, Going to Config Mode" on the screen

Note: "\$0030D8\$.bin" is an empty txt file with specific filename. You

can easily create the file by renaming an empty .txt file.

**User Mode** includes options for basic settings of the device.

**Calibrate Touch** calibrate the touchscreen interface

Plugin listshow if optional plug-in modules are installedNetworkconfigure IP Address of Ethernet interface

**BSP settings** show the BSP (Board Support Package) version, check the operating

hours for the device and for the display backlight, manage the buzzer

**Time** change the device date and time, including time zone, Daylight

Saving Time and NTP Server

**Regional Settings** customize Windows Regional Settings, such as date format

**Display** settings configure automatic backlight turnoff and adjust brightness

Close System Settings

**Restart** restart the device. "Main OS" option restarts as per default,

"Configuration OS" option restart device directly into System Settings

in System Mode

**System Mode** is the complete interface of the System Settings tool where all functions are available, in addition to the options available in "User Mode".

Format Flash format internal device Flash disk. All projects, the Runtime and

System settings will be deleted, returning the device to factory

condition.

**Restore Factory Settings** restore factory settings with choice of what to delete. Can be used as

alternative to Format Flash. Options available are: <u>Uninstall HMI</u> removes the Runtime and all projects.

Clear system settings reset the system parameters like IP Address,

date/time, etc

Clear Controller Application remove CODESYS application



**Resize Image Area** reserved to authorized technical personnel **Download Configuration OS** update the Configuration OS module of BSP

**Download Main OS** update the Main OS module of BSP

**Download Splash Image** replace the splash screen image displayed by the device at power-

up; the image must be supplied in the appropriate binary format. We

recommend changing the splash screen image with the use

of JMobile Studio

**Download OS Partition** reserved to authorized technical personnel **Download Data Partition** reserved to authorized technical personnel **Download Disk Image** reserved to authorized technical personnel **Download Bootloader** update the Bootloader module of BSP **Upload Bootloader** reserved to authorized technical personnel **Upload Configuration OS** reserved to authorized technical personnel

**Upload Main OS** reserved to authorized technical personnel

**Upload Splash Image** copy to an USB Memory or SD Card the current splash screen image

in binary format

**Upload OS Partition** reserved to authorized technical personnel **Upload Data Partition** reserved to authorized technical personnel

**Upload Disk-Image** copy to an USB Memory or SD Card the content of whole Flash disk

in binary format

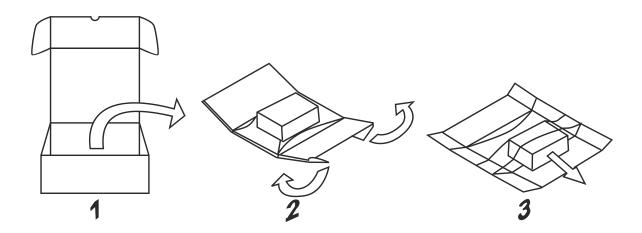
Only for eTOP607M and eTOP610, System Mode includes also:

**Download Main FPGA** update the Main FPGA module of BSP update the Safe FPGA module of BSP **Download Safe FPGA** 

Download System Supervisor update the System Supervisor module of BSP **Upload Main FPGA** reserved to authorized technical personnel Upload Safe FPGA reserved to authorized technical personnel **Upload System Supervisor** reserved to authorized technical personnel



# 12 Unpacking and Packing Instructions



to repack the unit, please follow the instructions backwards.

