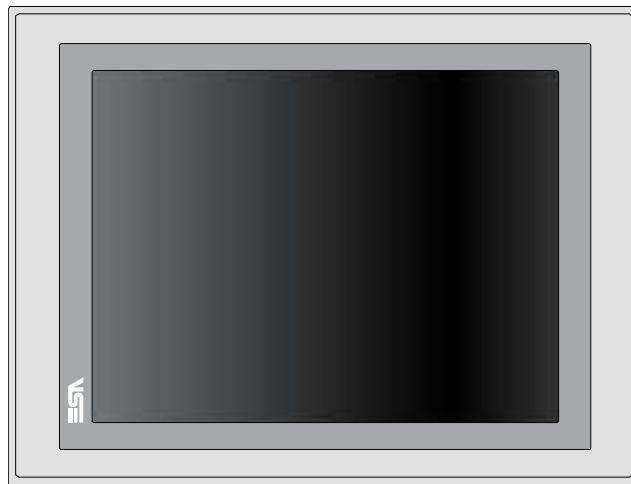


## 12. IT112 Video Terminal



### Technical characteristics

The table below lists the main technical features of the product in question.

Terminal code	Terminal features					
IT112		X	0	X	X	X
Display						
Type	LCD 65k Colour TFT	T				
Format	Graphical	●	●	●	●	●
Resolution [pixels]	800 x 600 (12,1")	●	●	●	●	●
Visual area dimensions [mm]	211,2 x 158	●	●	●	●	●
Adjusting contrast	Software	●	●	●	●	●
	Automatic compensation	●	●	●	●	●
Set characters	TTF Windows ®	●	●	●	●	●
Backlighting						
Type	CCFL Bulb	●	●	●	●	●
Minimum duration at 25°C [hours]	50000	T	●	●	●	●
System memory						
Ram [Byte]	128M	●	●	●	●	●
Resident Flash Array [Byte]	64M	●	●	●	●	●
Interfaces						

**IT112 Video Terminal**

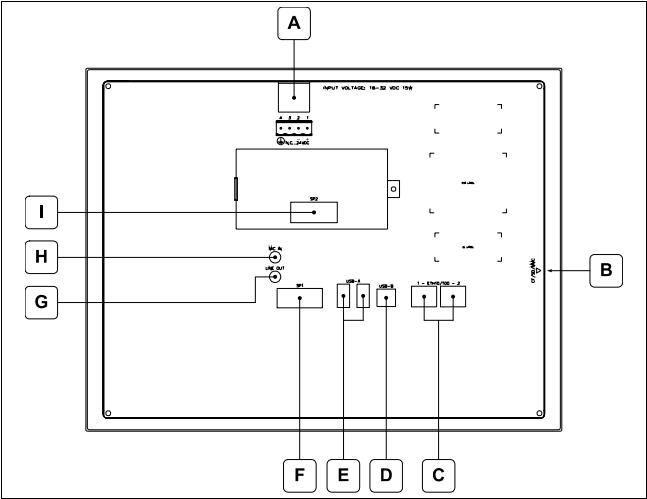
Terminal code	Terminal features					
IT112		X	0	X	X	X
Serial Port SP1	RS232/RS485	●	●	1	●	●
Serial Port SP2	RS232/RS485	●	●	●	1	●
Serial Port COM0	RS232	●	●	5	●	●
USB Host Port	v. 1.1	●	●	●	●	●
USB Device Port	v. 1.1	●	●	●	●	●
Cardbus Slot	Secure Digital	●	●	●	●	●
Audio Port	Mic-in/Line-out	●	●	●	●	●
Clock						
Clock	Hardware (Supercapacitor - Min.72h)	●	●	●	●	●
Networks						
Integrated	Profibus-DP	●	●	●	3	●
	CAN	●	●	●	2	●
	Ethernet1 10/100Mbit RJ45	●	●	●	●	●
	Ethernet2 10/100Mbit RJ45	●	●	●	●	●
Technical data						
Power supply	24Vcc (18..32Vcc)					
Power consumption at 24Vcc	15W					
Protective fuse	Resettable Polyswitch					
Level of protection	IP65 (Frontal)					
Working temperature	0..50°C					
Storage and transport temperature	-20..+60°C					
Humidity (without condensation)	<85%					
Weight	2800gr					
Dimensions						
External L x H x D [mm]	336.3 x 256 x 43.8 (69.2 with 2 serial ports)					
Holes L x H [mm]	314 x 240					
Certification						
Marks and validations	CE, cULus					

**Front**

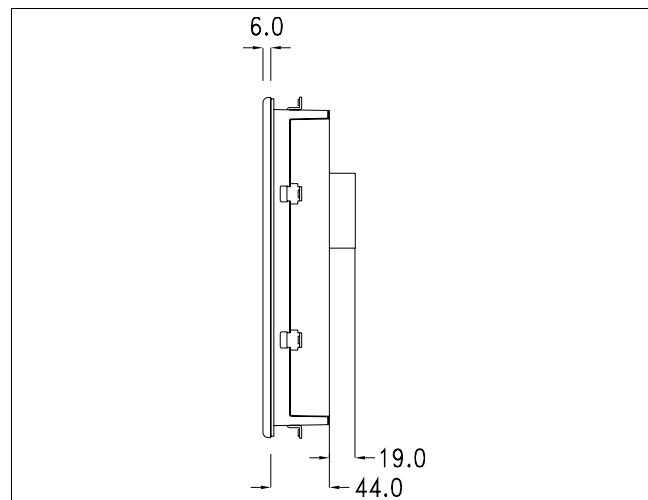
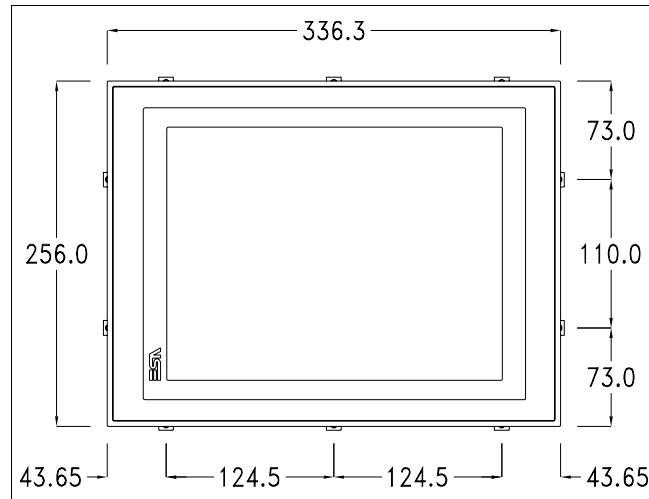
..

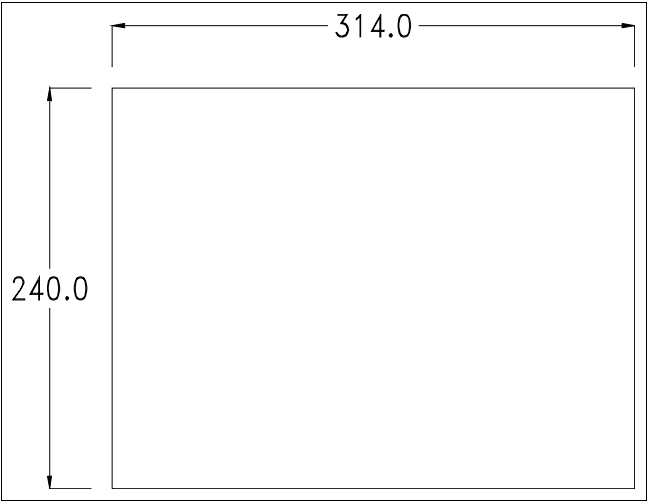


Rear



Position	Function
A	Power supply connector
B	Slot for additional secure digital memory card.
C	Ethernet 10/100 Base-T Port for connection to any network with standard TCP/IP protocol
D	USB-B Device Port
E	USB-A Host Port
F	SP1 serial port for communication with PLC/PC
G	Audio Line-out
H	Audio Line-in
I	IT112x xx1x SP2 serial port for communication with PLC/PC IT112x xx2x CAN Port IT112x xx3x Profibus-DP Port

**Dimensions  
and cutout**

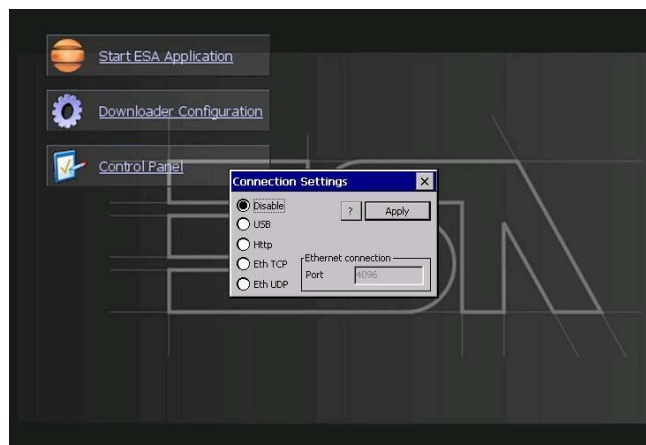


### Service page



Service page which is accessed by pressing a button in the project (exit runtime).

- Start ESA Application executes the runtime of the project
- Download configuration opens the download configuration
- Control Panel opens the control panel

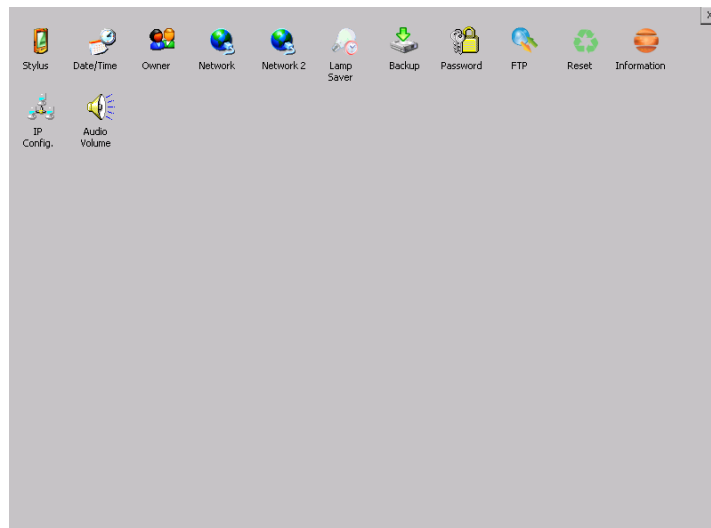


By clicking on downloader configurator the connection settings can be configured

- Disable disables the connection with the terminal
- USB enables the USB connection with the terminal
- Http enables the ethernet connection with the terminal through an http protocol
- Eth TCP enable the ethernet connection with the terminal and allows to configure the port (slower but more precise).

- Eth UDP enable the ethernet connection with the terminal and allows to configure the port (faster but less precise).

### Control panel



By clicking on each of these icons access is gained to the terminal configuration.

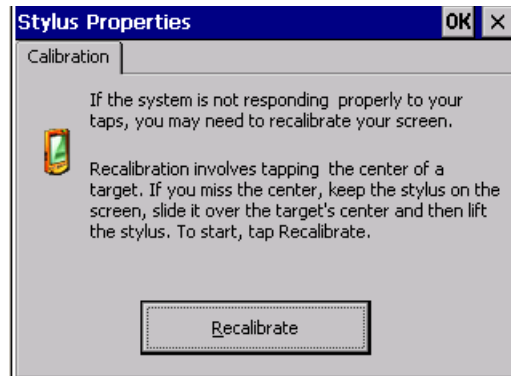
### Stylus

The terminal uses a resistant type sensitive glass, for this type of glass to function correctly requires a calibration procedure (the terminal is supplied already calibrated), meaning the resistant area of the glass must be suitable to the visual area of the display.

If it is necessary to repeat the calibration procedure, it is possible to do so by following the instructions below.

The procedure requires great attention because the precision of the keys' area depends from the calibration.





From the control panel click on the stylus icon and, subsequently, the following screens are displayed on the recalibrate key. Touch the screen near the crosses that appear on the screen.

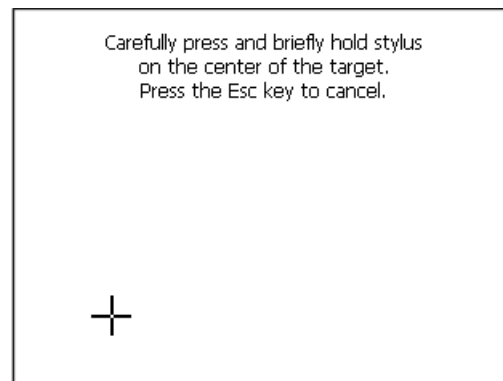
Step 1: touch the screen near the crosses



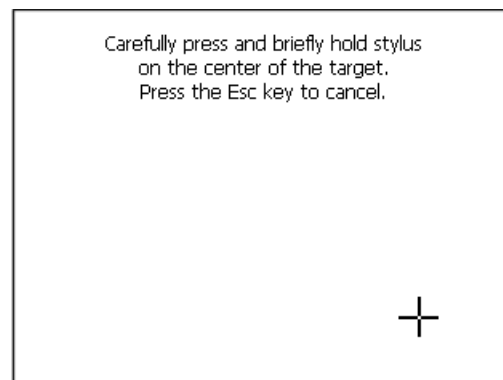
Step 2: touch the screen near the crosses



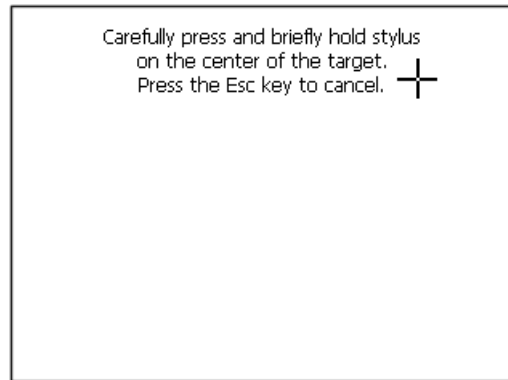
Step 3: touch the screen near the crosses



Step 4: touch the screen near the crosses



Step 5: touch the screen near the crosses



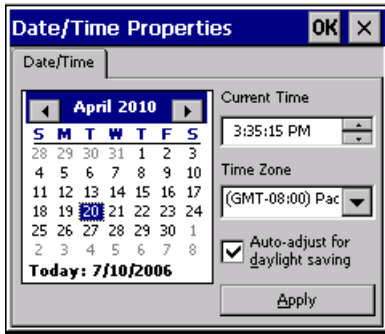
Step 6  
Touch anywhere on the screen to end calibration.



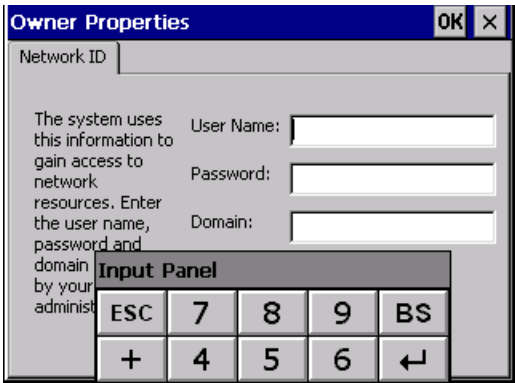
The terminal returns to the initial page, by clicking on ok calibration is confirmed.

**Date/Time**

From here it is possible to amend: date, time and time zone. By enabling the “automatically adjust clock for daylight saving” check, the time is automatically updated at BST or GMT.



**Owner**



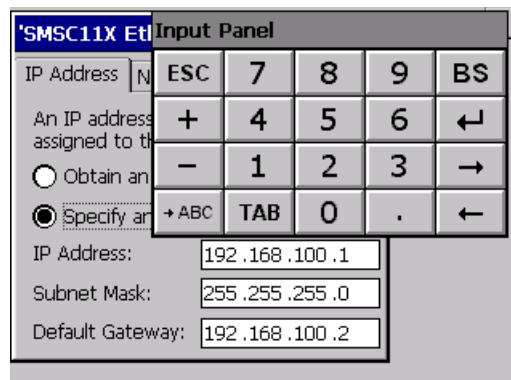
This information is used by Windows CE to access the network resources.

Username: enter the user name to access the network

Password: enter the password to access the network

Domain: enter the domain to access the network

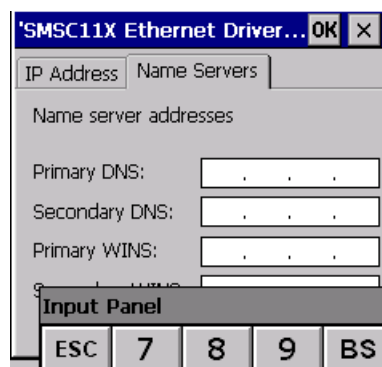
In case the above data is unknown, contact the network administrator.

**Network and Network2****IP address**

Obtain an IP address via DHCP: by selecting this option, an IP address is automatically obtained (ensure that the DHCP server is enabled on the network)

Specify an IP address: by selecting this option the parameters must be entered manually (IP Address, Subnet Mask, Default Gateway)

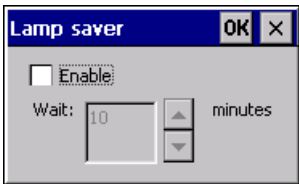
In case the above data is unknown, contact the network administrator.

**Name servers**

If necessary, the parameters relating to the relative DNS or AL WINS must be entered

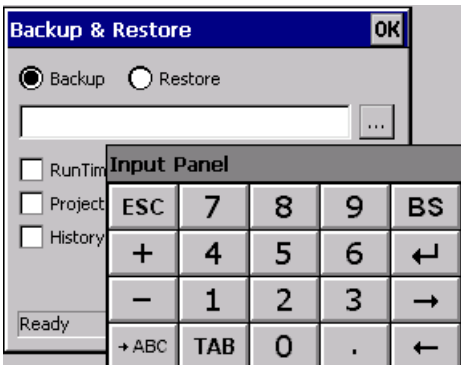
In case the above data is unknown, contact the network administrator.

**Lamp Saver**



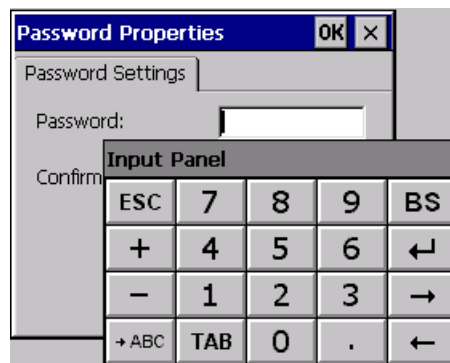
By enabling the Lamp Saver, the lamp switches off after a time set in the Wait box.

**Backup**



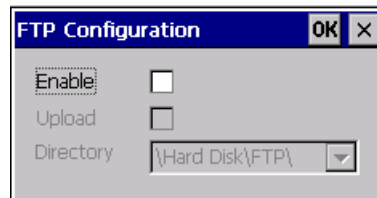
A backup copy of the components chosen through ticking can be made from here: Runtime, Project, History. It is essential to tick at least one of the components to be exported and choose a path where to save the file. The restore can be done for all exported components or through ticking, choose the component or components for which restore is to be carried out.

### **Password**



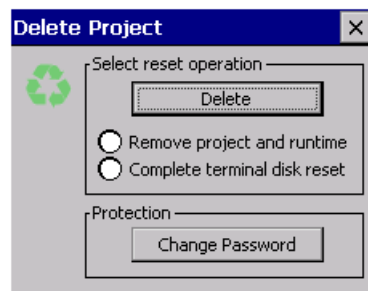
The Password option allows assigning a password to the terminal.  
 The password is requested (not compulsorily) during the use of the "Remote Desktop" application.

### **FTP**



The "FTP" acronym means "Files Transfer Protocol". It gives the user the possibility to enable and disable the "FTP Server" service of the panel from any other device (PC,XS,IT,YT) connected to the network.  
 This function is very useful when it is necessary to write, cancel or modify data on the terminal easily from a remote access.  
 Selecting the "Enable" option, the "FTP" folder sharing service in the "Hard Disk" directory is enabled :

### Reset



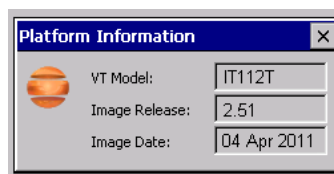
"Reset" is an application of the terminal control panel which allows to cancel all that been transferred onto the Hard Disk. Selecting the "Enable" option, the "FTP" folder sharing service in the "Hard Disk" directory is enabled.

The user can choose from 2 options :

- "Remove project and runtime" -> choosing this option, both the project and the runtime that have been transferred from Polymath onto the terminal will be cancelled.

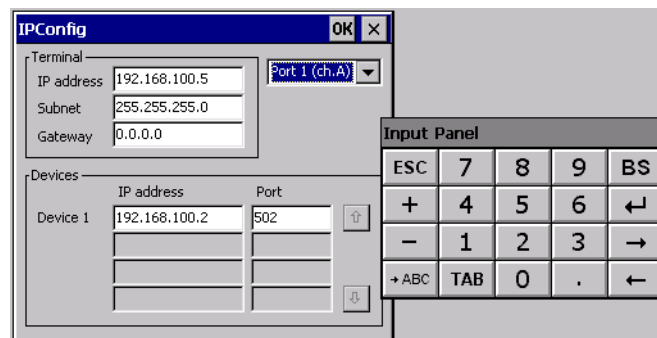
- "Complete terminal disk reset" -> choosing this option, the whole content of the "Hard Disk" folder will be cancelled, with the exception of the files that are essential for operating the terminal.

### Information



Information regarding the panel is displayed, which: terminal model, revision of the Windows CE image and the image date.

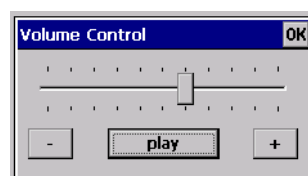


**IP Config**

By clicking on the "IP Config" icon, the mask displaying the IP Address of the terminal and IP Address (or IP Addresses) of the devices connected via Ethernet will appear.

The function "IP Config" is useful in that it is possible to change the addresses of the devices without having to use the POLYMATH configuration software (very useful operation during the system's start-up).

By using the appropriate key "Input Panel", the user can carry out any variations to the IP addresses of the devices directly from the ESA terminal.

**Audio Volume**

By clicking on the icon "Audio -Volume" the above window will appear, allowing to set the volume of the MP3/WAV files.

From Polymath 2.1 is possible to associate an audio-file to an alarm of the project.

By clicking the button "Play" the user is able to test the utility running a Bitonal - Buzzer

