

Description of XBT GTW terminals

8.4" touch screen front panel, XBT GTW 450

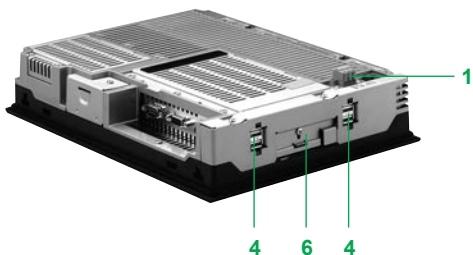
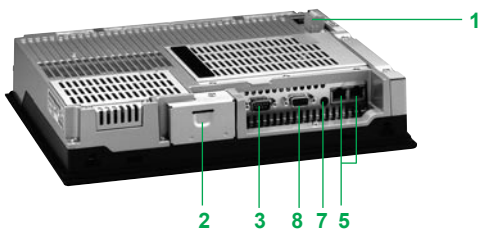
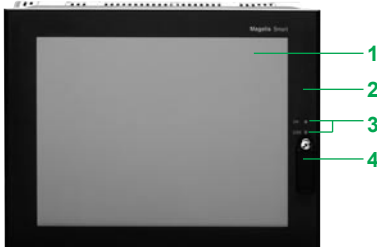
The touch screen front panel of terminal **XBT GTW 450** comprises:

- 1 An 8.4" SVGA active-matrix colour TFT LCD screen (maximum display area 800 x 600 points) with high-definition analog touch panel
- 2 An aluminium alloy front panel with IP 65 membrane (mounted on a hardened steel frame)
- 3 Two LEDs marked:
 - ON (green), terminal switched on
 - DISK (green), accessing IDE bus (accessing Compact Flash memory, etc.)

Underside, 8.4"

All expansion slots and connection elements are accessible from the rear of the terminal, with the following elements located on the underside:

- 1 A removable screw terminal block for connecting 24 V \square power supply
- 2 Two Compact Flash memory card slots, one for the card containing the operating system and installed software, and the other free
- 3 Two 9-way male SUB-D connectors marked COM1 and COM2 for the RS 232 serial link
- 4 4 USB 2.0 ports
- 5 Two RJ45 connectors for Ethernet 10/100 Mbps and Ethernet 10/100 Base-TX/1 GB link
- 6 A mini-jack connector for loudspeaker



12" touch screen front panel, XBT GTW 652

The touch screen front panel of terminal **XBT GTW 652** comprises:

- 1 An 15" SVGA active-matrix colour TFT LCD screen (maximum display area 800 x 600 points) with high-definition analog touch panel
- 2 An aluminium alloy front panel with IP 65 membrane (mounted on a hardened steel frame)
- 3 Two LEDs marked:
 - ON (green), terminal switched on
 - DISK (green), accessing IDE bus (accessing Compact Flash memory, etc.)
- 4 A USB port (dust and damp proof)

Underside and side panel, 12"

All expansion slots and connection elements are accessible from the rear of the terminal, with the following elements located on the underside:

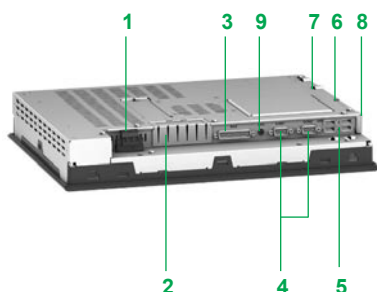
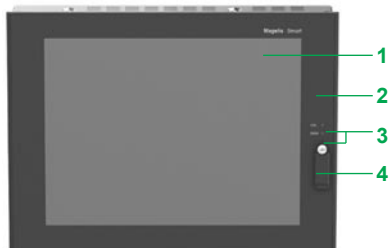
- 1 A removable screw terminal block for connecting 24 V \square power supply
- 2 A slot for the Compact Flash memory card containing the operating system and integrated software
- 3 A 25-way female SUB-D connector marked RAS for product monitoring and diagnostics
- 4 Two 9-way male SUB-D connectors marked COM1 and COM2 for the RS 232 serial link
- 5 4 USB 2.0 ports
- 6 A mini-DIN PS/2 connector for connecting the external keyboard
- 7 Two RJ45 connectors for Ethernet 10/100 Mbps and Ethernet 10/100 Base-TX/1 GB link
- 8 A slot for additional PCMCIA type II cards
- 9 A mini-jack connector for loudspeaker

Operator dialogue terminals

Advanced Panels

Magelis HMI GTW with 15" screen

Software pre-installed on Magelis XBT GTW/HMI GTW



Description of HMI GTW terminals

15" touch screen front panel, HMI GTW 7353

The touch screen front panel of terminal **HMI GTW 7353** comprises:

- 1 A 15" XGA active matrix colour TFT LCD screen (maximum display area 1024 x 768 points) with high-definition analog touch panel
- 2 An aluminium alloy front panel with IP 65 membrane (mounted on a hardened steel frame)
- 3 Two LEDs marked:
 - ☐ ON (green), terminal switched on
 - ☐ DISK (green), accessing IDE bus (accessing Compact Flash memory, etc.)
- 4 A USB port (dust and damp proof)

Underside, 15"

All expansion slots and connection elements are accessible from the rear of the terminal, with the following elements located on the underside:

- 1 A removable screw terminal block for connecting 24 V \square power supply
- 2 A slot for the Compact Flash memory card containing the operating system and integrated software
- 3 A 25-way female SUB-D connector marked RAS for product monitoring and diagnostics
- 4 Two 9-way male SUB-D connectors marked COM1 and COM2 for the RS 232 serial link
- 5 4 USB 2.0 ports
- 6 A mini-DIN PS/2 connector for connecting the external keyboard
- 7 Two RJ45 connectors for Ethernet 10/100 Mbps and Ethernet 10/100 Base-TX/1 GB link
- 8 A slot for additional PCMCIA type III cards
- 9 A mini-jack connector for loudspeaker

Pre-installed software

Magelis XBT GTW and HMI GTW terminals have the following software installed on the Compact Flash system card, in addition to Windows XP Embedded:

- Vijeo Designer Run Time, unlimited use after activation of authorization code
- Vijeo Citect web client dll on XBT GTW 652/HMI GTW 7353
- Internet Explorer
- Acrobat Reader
- Word/Excel/PowerPoint viewer
- Framework .Net on XBT GTW 652/HMI GTW 7353

Type of terminal		XBT GTW 450	XBT GTW 652	HMI GTW 7353
Environment				
Conformity to standards		EN 61131-2, IEC 61000-6-2, FCC (Class A), UL 508, CSA C22-2 n°14		
		–		UL 1604 (HazLoc Class 1 Div 2)
Product certifications		CE, cULus, CSA		
		DNV	–	
Temperature	Operation	0...50°C		
	Storage	-20...+60°C		
Relative humidity	Operation/storage	10...85% (non-condensing)		
Altitude		< 3000 m		
Degree of protection	Front panel	IP 65 conforming to IEC 60529, Nema 4X (with fixing by means of 4 screw clips)		
	Rear panel	IP 20 conforming to IEC 60529		
Shock resistance		Conforming to IEC 60068-2-27; semi-sinusoidal pulse 11 ms, 15 gn on the 3 axes		
Vibrations		Conforming to IEC 60068-2-6; 5...9 Hz at 3.5 mm; 9...150 Hz at 1 g		
E.S.D.		Conforming to IEC 61000-4-2, level 3 (contact 6 kV, air 8 kV)		
Electromagnetic interference		Conforming to IEC 61000-4-3, 10 V/m		
Electrical interference		Conforming to IEC 61000-4-4, level 3 (power supply and I/O 2 kV, other ports 1 kV)		
Mechanical characteristics				
Mounting and fixing	Mounting on 1.6...10 mm thick panel	Flush mounted, fixed by 8 screw clips (included)		
Material	Case	Aluminium (front and rear)		
Electrical characteristics				
Power supply	Voltage	24 V ~		
	Limits	21.6...26.4 V ~		
	Voltage break	≤ 5 ms		
Inrush current		≤ 30 A		
Consumption		40 W		90 W

Type of terminal			XBT GTW 450	XBT GTW 652	HMI GTW 7353
Functional characteristics					
LCD screen	Type		Colour TFT		
	Colour		262 144		
	Definition		800 x 600 pixels (SVGA)	800 x 600 pixels (SVGA)	1024 x 768 pixels (XGA)
	Size (width x height in mm)		8.4" (171 x 128)	12" (245 x 183)	15" (306 x 230.1)
	Touch-sensitive area		Analog, resolution 1024 x 1024		
	Backlighting (service life at 25°C for continuous use)		50,000 hours		
	Adjustments	Brightness	4 levels via touch panel		
		Contrast	—		
Character fonts		ASCII (including all European characters), Japanese (ANK, Kanji), Chinese (simplified Chinese), Taiwanese (traditional Chinese), Korean			
Dialogue application	Max. number of pages		Limited by the capacity of the internal Flash memory or Compact Flash card		
Signalling			1 ON LED: switched on 1 DISK LED: accessing CF system card		
Operating system/processor			Windows XP Embedded, SP2 (1), Intel Celeron M600 MHz		
Memory	Application		1 GB CF system card included with terminal, expandable to 4 GB	2 GB CF system card included with terminal, expandable to 4 GB	
	Data backup		512 KB SRAM (lithium batteries)		
RAM (1 memory slot)			SDRAM (256 MB minimum), expandable up to 1024	SDRAM (512 MB minimum), expandable up to 1024	SDRAM (512 MB minimum), expandable up to 1024
Schneider Electric protocols		Modicon	Modbus, Modbus TCP/IP, Modbus Plus, Uni-TE		
Third-party protocols	Mitsubishi	Melsec	A/Q CPU (SIO), A/Q Ethernet (TCP), A Link (SIO), QnA CPU (SIO), Q Ethernet (UDP), FX (CPU)		
	Omron	Sysmac	FINS (Ethernet), FINS (SIO), LINK (SIO)		
	Rockwell Automation	Allen-Bradley	DF1-Full Duplex, Ethernet IP (PLC5, SLC500, MicroLogix, ControlLogix), Ethernet IP (native)		
	Siemens	Simatic	RK512/3964R (S7-300/400), PPI (S7-200), Ethernet		
Real-time clock			Built-in real-time clock		
Memory card	Compact Flash card		1 primary slot with a 1 GB minimum card, expandable to 4 GB, loaded with the OS and software + 1 free secondary slot	1 slot with a 2 GB minimum card, expandable to 4 GB, loaded with the OS and software	
	PCMCIA card		—	1 type II card slot	1 type III card slot
Connections	Power supply		Removable screw terminal block: 3 terminals (pitch 5.06 mm), tightening torque 0.5 Nm		
	COM1 and COM2 serial links		2 9-way male SUB-D connectors (RS 232C serial link)		
	USB ports (V2.0)	Underside	4 USB type A host connectors for downloading applications, connecting peripherals and Modicon M340 terminal port communication		
		Front panel	—	1 dust and damp proof connector	1 dust and damp proof connector (15" model)
	Ethernet TCP/IP network		1 RJ45 10BASE-T/100BASE-TX connector		
			1 RJ45 10BASE-T/100BASE-TX/1 GB connector		
	Audio output (loudspeaker)		Mini-jack connector		
	PS/2 keyboard port		—	—	1 mini-DIN connector
	RAS port		—	—	1 25-way female SUB-D link

(1) Installed in Compact Flash memory