

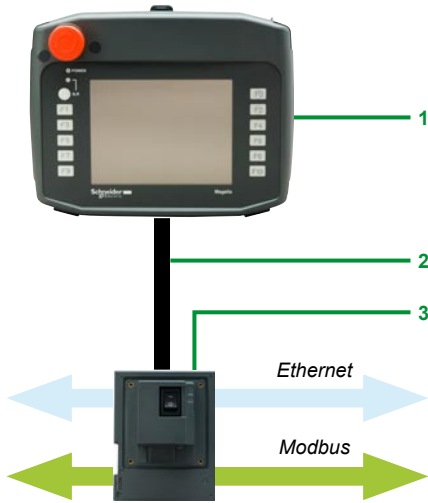
Operator dialogue terminals

Advanced Panels

Magelis XBT GH with 5.7" screen

XBT ZGJBOX junction box, XBT ZGHL cables

Description



Overview

The Magelis XBT GH2460 **1** is a portable graphic display terminal with a 5.7" touch screen.

It enables connection on the Ethernet or Modbus network at any point where an XBT ZGJBOX junction box **3** is installed.

The connection between the terminal and junction box is established using an XBT ZGHL3 or XBT ZGHL10 cable **2**.

Advanced Panels XBT GH2460

The front panel comprises:

- 1** A touch screen for displaying synoptic views (5.7" colour), configurable using Vijeo Designer
- 2** A multicolour LED (green, orange and red) indicating the operating mode of the terminal
- 3** 11 function keys Fi
- 4** An operating key with O.P. LED (green) for touch screen validation
- 5** An emergency stop button with 2 NC safety contacts and 1 NO auxiliary contact for stopping the machine if necessary

The rear panel comprises:

- 6** A USB type A host connector for peripheral connection and application transfer (with protective cover)
- 7** A slot for a Compact Flash memory card (also protected by the cover)
- 8** A key switch for switching the Magelis XBT GH on/off
- 9** A 3-position enabling grip switch for protecting the operator (the OK signal is only sent when the grip switch is in the centre position)
- 10** A 24-way connector for connecting the 3 m or 10 m flexible interface cable between the Magelis XBT GH and the junction box
- 11** A stylus for the touch screen
- 12** Two holes for inserting re-usable labels in the function keys

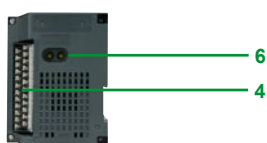
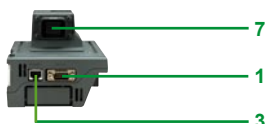
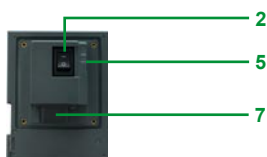
Operator dialogue terminals

Advanced Panels

Magelis XBT GH with 5.7" screen

XBT ZGJBOX junction box, XBT ZGHL cables

Description (continued)



XBT ZGJBOX junction box for XBT GH

It comprises:

- 1 A 9-way SUB-D connector for RS 232C or RS 422/485 serial link to PLCs (COM1)
- 2 An ON/OFF switch for the junction box
- 3 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX
- 4 A 24-way screw terminal for connecting the 24 V $\bar{\text{V}}$ power supply and output signals from the Magelis XBT GH terminal
- 5 An LED indicating the status of the link with the Magelis XBT GH, 3 colours (green, orange and red)
- 6 2 thumbwheels for configuring the station number on the junction box
- 7 A 32-way connector for connecting the Magelis XBT GH terminal using the 3 m or 10 m flexible cable (XBT ZGHL3 or XBT ZGHL10)

XBT ZGHL3 and XBT ZGHZ10 flexible cables

For connecting the Magelis XBT GH terminals to their XBT ZGJBOX junction boxes

Operator dialogue terminals

Advanced Panels

Magelis XBT GH with 5.7" screen

XBT ZGJBOX junction box, XBT ZGHL cables

Product type		XBT GH2460 terminal	XBT ZGJBOX junction box
Environment			
Conformity to standards		EN 61131-2, IEC 61000-6-2, FCC (Class A), UL 508	
Product certifications		CE, cULus, C-Tick, certifications pending for the safety circuit combining the emergency stop button of the XBT GH and the Preventa module XPSAF5130 (Cat 4/EN954-1, PLe/ISO 13849-1, SIL3/IEC 62061)	CE, cULus, C-Tick
Temperature	Operation	0...40°C	
	Storage	-20...+60°C	
Relative humidity		0...90% (non-condensing)	
Altitude		< 2000 m	
Case degree of protection		IP 65 conforming to IEC 60529	IP 65 conforming to IEC 60529, mounted in enclosure
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	
Electromagnetic interference		Conforming to IEC 61000-4-3, 10 V/m	
Electrical interference		Conforming to IEC 61000-4-4, level 3	
Impact resistance (dropping)		Conforming to IEC 61131-2, 1 m (twice)	–
Mechanical characteristics			
Case material		Resin	Polycarbonate/polyethylene terephthalate alloy
Mounting and fixing	Mounting on 1/2" rail or 1.6...10 mm thick panel	–	Flush mounting, fixed by 4 M4 screws (included)
Keys		11 customizable function keys + 1 operating key with LED	–
Emergency stop button		1 auxiliary contact (NO), 2 safety contacts (NC)	–
	Voltage	30 V $\overline{\text{DC}}$	–
	Maximum current	1 A	–
	Minimum load	5 V $\overline{\text{DC}}$, 1 mA	–
	Conformity to standards	IEC 60947-5-1, IEC 60947-5-5	
Key switch		1 contact	–
	Voltage	24 V $\overline{\text{DC}}$	–
	Maximum current	300 mA	–
3-position enabling grip switch		2 NC safety contacts (open when gripped or released)	–
	Voltage	30 V $\overline{\text{DC}}$	–
	Maximum current	0.7 A	–
	Conformity to standards	IEC 60947-5-8, ISO 12100-1-2, IEC 60204-1	
Electrical characteristics			
Power supply	Voltage	24 V $\overline{\text{DC}}$	
	Limits	19.2...28.8 V $\overline{\text{DC}}$	
	Voltage break	≤ 5 ms	≤ 10 ms
Inrush current		≤ 60 A	≤ 30 A
Consumption		16.7 W	6.3 W

Functional characteristics		
Type of terminal	Magelis XBT GH2460	
LCD screen	Type	Colour TFT
	Colour	65,536 colours, 16,384 if flashing
	Definition	640 x 480 pixels (VGA)
	Size (width x height in mm)	5.7" (115.2 x 86.4)
	Touch-sensitive area	Analog, resolution 1024 x 1024
	Backlighting	50,000 hours (service life at 25°C for continuous use)
	Brightness adjustment	16 levels via touch panel
	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 LED: green for normal operation, orange if backlighting faulty
Operating system/processor		Magelis/266 MHz RISC CPU
Memory	Application	32 MB Flash EPROM
	Data backup	512 KB SRAM (lithium batteries)
Schneider Electric protocols	Modicon	Modbus, Uni-TE, Modbus TCP/IP
Third-party protocols	Mitsubishi	Melsec
	Omron	Sysmac
	Rockwell Automation	Allen-Bradley
	Siemens	Simatic
Real-time clock		Built-in real-time clock
Expansion	Compact Flash memory card	1 slot for 128, 256, 512 MB, 1 GB, 2 GB or 4 GB Compact Flash card
	USB port (V1.1)	Type A
Connection	32-way quick connector	XBT ZGHL3 (3 m) or XBT ZGHL10 flexible connection cable (10 m)
Junction box type		XBT ZGJBOX
Thumbwheels		2 thumbwheels for configuring a station number (0 to 255) on the junction box
Connections	XBT GH link	32-way connector for linking XBT GH using a 3 m or 10 m cable
	COM1 serial link (115.2 kbps max.)	9-way male SUB-D connector (RS 232C/RS 422/485 serial link)
	Ethernet TCP/IP network (10BASE-T/100BASE-TX)	RJ45 connector
	Inputs/outputs on 24-way screw terminals	<input type="checkbox"/> 24 V $\overline{\text{---}}$ power supply, 3 terminals, tightening torque 0.79 Nm <input type="checkbox"/> Key switch status, 3 terminals, 2 contacts (1 NO + 1 NC) <input type="checkbox"/> 3-position enabling grip switch status, 4 terminals, 2 contacts (2 NO) <input type="checkbox"/> Operating key status, 2 terminals <input type="checkbox"/> Emergency stop button status, 6 terminals, 3 contacts (2 NC + 1 NO) <input type="checkbox"/> FO and F2 function key status, 4 terminals <input type="checkbox"/> Buzzer output status, 2 terminals