Human/Machine interfaces

Optimum Advanced Panels, Magelis™ GTO

Catalogue

April 2012

PRODUCTION LINE
CAUTION
PUMP
CONTROL
START
BOILER PROCESSING
BEER PROCESS

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- dimensions,
- curves, ...
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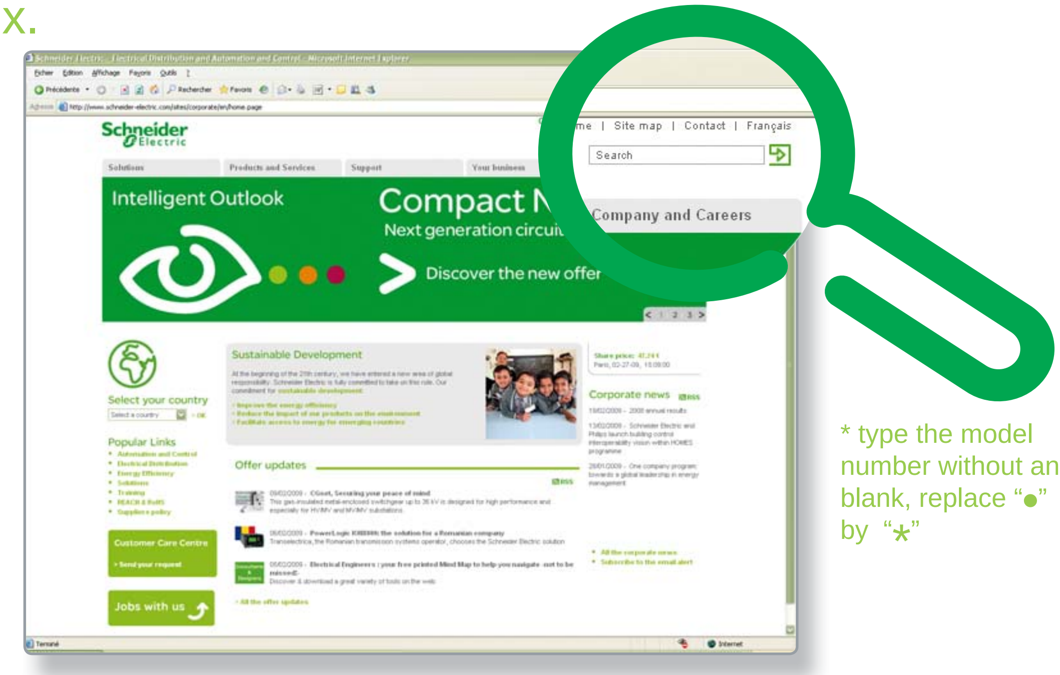
1 From the home page, type the model number* into the “Search” box.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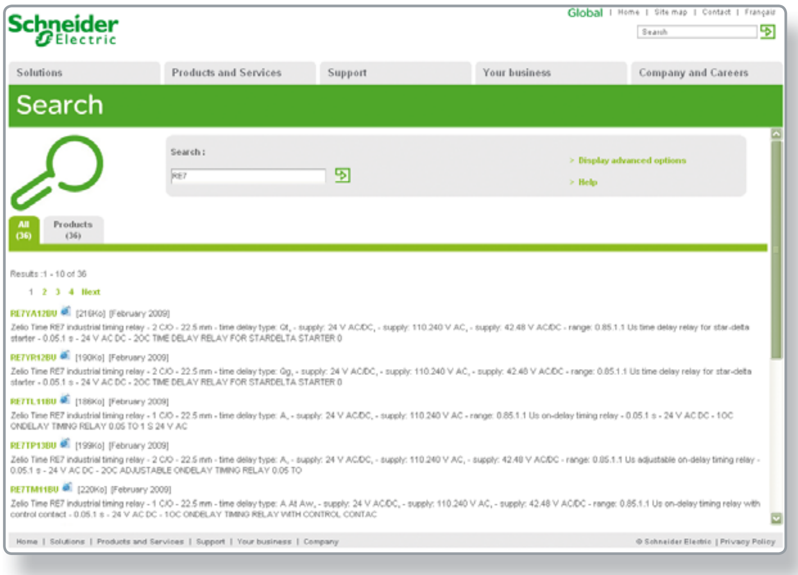
* type the model number without any blank, replace “●” by “*”

2 Under ”All” tab, click the model number that interests you.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Search : RE7

Results :1 - 10 of 36

1 2 3 4 Next

RE7YA12BU [216Ko] [February 2009]
Zelio Time RE7 industrial timing relay - 2 C/O - 22.5 mm - time delay type: Qt, - supply: 24 V AC/DC, - supply: 110.240 V AC, - supply: 42.48 V AC/DC - range: 0.85.1.1 Us time delay relay for star-delta starter - 0.05.1 s - 24 V AC DC - 2OC TIME DELAY RELAY FOR STARDELTA STARTER 0

RE7YR12BU [190Ko] [February 2009]
Zelio Time RE7 industrial timing relay - 2 C/O - 22.5 mm - time delay type: Qg, - supply: 24 V AC/DC, - supply: 110.240 V AC, - supply: 42.48 V AC/DC - range: 0.85.1.1 Us time delay relay for star-delta starter - 0.05.1 s - 24 V AC DC - 2OC TIME DELAY RELAY FOR STARDELTA STARTER 0

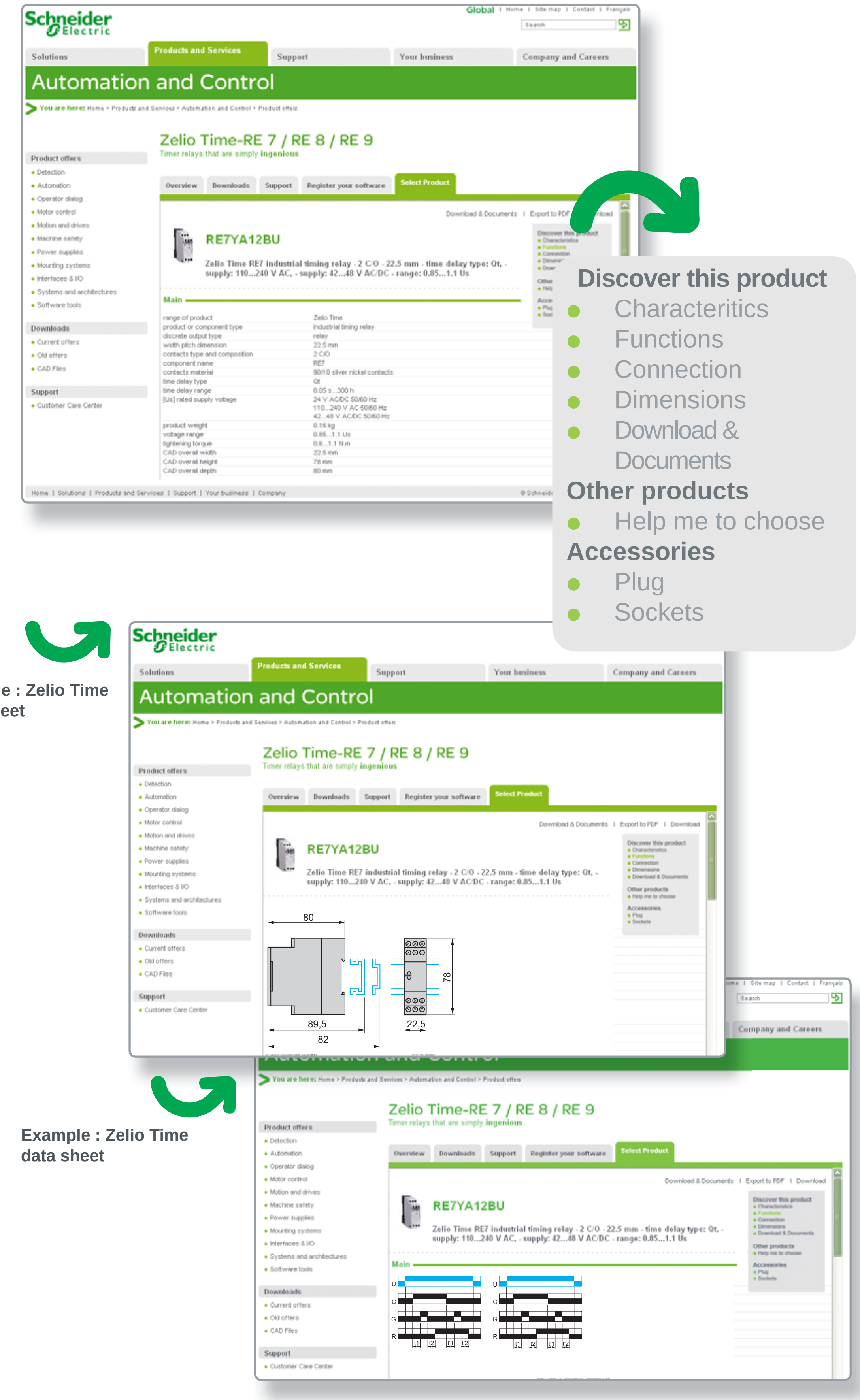
RE7TL11BU [186Ko] [February 2009]
Zelio Time RE7 industrial timing relay - 1 C/O - 22.5 mm - time delay type: A, - supply: 24 V AC/DC, - supply: 110.240 V AC - range: 0.85.1.1 Us on-delay timing relay - 0.05.1 s - 24 V AC DC - 1OC ONDELAY TIMING RELAY 0.05 TO 1 S 24 V AC

RE7TP13BU [199Ko] [February 2009]
Zelio Time RE7 industrial timing relay - 2 C/O - 22.5 mm - time delay type: A, - supply: 24 V AC/DC, - supply: 110.240 V AC, - supply: 42.48 V AC/DC - range: 0.85.1.1 Us adjustable on-delay timing relay - 0.05.1 s - 24 V AC DC - 2OC ADJUSTABLE ONDELAY TIMING RELAY 0.05 TO

RE7TM11BU [220Ko] [February 2009]
Zelio Time RE7 industrial timing relay - 1 C/O - 22.5 mm - time delay type: A At Aw, - supply: 24 V AC/DC, - supply: 110.240 V AC, - supply: 42.48 V AC/DC - range: 0.85.1.1 Us on-delay timing relay with control contact - 0.05.1 s - 24 V AC DC - 1OC ONDELAY TIMING RELAY WITH CONTROL CONTAC

3 The product data sheet displays.

Example : Zelio Time data sheet



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Zelio Time-RE 7 / RE 8 / RE 9

Timer relays that are simply **ingenious**

Product offers
- Detection
- Automation
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- Motion and drives
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RE7YA12BU

Zelio Time RE7 industrial timing relay - 2 C/O - 22.5 mm - time delay type: Qt, - supply: 110...240 V AC, - supply: 42...48 V AC/DC - range: 0.85...1.1 Us

Main

range of product	Zelio Time
product or component type	industrial timing relay
discrete output type	relay
width pitch dimension	22.5 mm
contacts type and composition	2 C/O
component name	RE7
contacts material	90/10 silver nickel contacts
time delay type	Qt
time delay range	0.05 s...300 h
[Us] rated supply voltage	24 V AC/DC 50/60 Hz 110...240 V AC 50/60 Hz 42...48 V AC/DC 50/60 Hz
product weight	0.15 kg
voltage range	0.85...1.1 Us
tightening torque	0.6...1.1 N.m
CAD overall width	22.5 mm
CAD overall height	78 mm
CAD overall depth	80 mm

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- Help me to choose

Accessories
- Plug
- Sockets

Example : Zelio Time data sheet

Example : Zelio Time data sheet

☑ You can get this information in one single pdf file.

The new operator terminal standard for OEM

Magelis GTO is the first optimized terminal that does not compromise features and performances for most of the OEM applications:

> State of the art display
> Optimized communication
> Easy to install and sustainable offer
> Adapted to your environment
> Rugged for specific applications

ENERGY CONTROL
BEER PROCESS
BOILER PROCESSING

Contents

• Magelis GTO benefits	4-9
• Selection guide for Advanced Panels Magelis GTO	10-11
• Magelis GTO: Presentation pages	12-15
• Magelis GTO: Description pages	16-20
• Magelis GTO: References pages	21
• Separate components for Advanced Panels Magelis GT/GTO/GK/GH/GTW	22-35

State of the art display

The 5 screen size range consists of a 65 K colour TFT screen that provides the **best-ever visualisation** of Magelis range.
The design of the panel, with its LED backlight, allows **energy saving and dimming functionality.**

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13:14:22
StationNumber02: Transportation
Delivery

Up to **40%**

The 7” wide screen provides a 40% increase in the available screen area. The external keypad, also available with the 3,5” screen, allows the screen area to provide maximum information.

Optimized communication

Magelis GTO offers **remote control access** and embedded Ethernet provides **easy integration in your IT structure.**
The up to date peripheral links enable easy operating use as well as an easy maintenance.

BATTERY
SD CARD
USB1
COM1
USB2
RS485
COM2

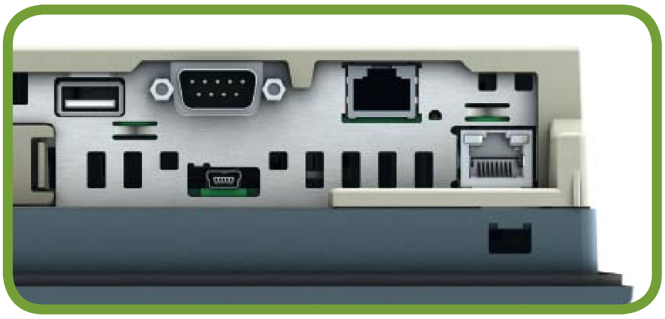
Easy to install and sustainable offer

- With Magelis GTO, you can rely on a long term investment. The existing **cut-out is the same size** for the new range, enabling you an immediate installation when your current panel needs to be replaced.
  The **configuration tool** (software) **is also the same** to enable an immediate restart of the operations.

Powered by
Vijeo Designer

Schneider Electric
Magelis

- The installation is made easy with:
  - **only 4 installation fasteners** for the whole range
  - **unique fast connection power plug** for the whole range
  - **the connectors located in the same place** on the panel for a better wiring



Magelis GTO is part of Machine solution

Included in SoMachine V3.1

Adapted to your environment

Whatever your constraints, you can find a solution with Magelis GTO.

Especially adapted to **hot atmospheres**, the range allows operation up to 55°C.

You need a rugged panel for **harsh environments**, we offer a set of accessories to protect against chemical and oil substances.

If you are exposed to **Marine constraints, explosive risks or hazardous locations**, the range complies with the appropriate certification: Marine Bridge and Deck, ATEX (Cat 3 certificates) and ISA 1212 to allow installation in these specific applications.

Certified

Conforming to international standards

CE

UL
Class 1 Div 2

C-Tick

Ex
Category 3

Marine certification*

* Consult our catalogue

Specific range developed for your Pharmaceutical and Food & Beverage applications:

Magelis GTO offers a complete range of stainless steel panels especially designed to meet the constraints of the pharmaceutical or food and beverage industry.

Developed in compliance with DIN EN 1672-2 “Food processing machines – Safety and Hygiene Requirements”, they can provide an examplary cleaning and disinfection.

Their IP66K protection grade makes **them resistant to a 10 bar water jet** without compromising the **seal of the cabinet** provided by a gasket conforming to FDA 21 CFR 177.2006. The conformal coating of electronic parts minimises the risk of condensation.

The cleanliness is provided by the absence of front metal joints or groove, and by the corrosion resistant stainless steel grade 304 cover.

To fit your needs, they are available in **several sizes**: 5.7”, 10.4”, and 12.1”, and can be mounted the same way as the standard size.

Complete traceability is possible with the Vijeo Designer software IDS add-on compliant with CFR21 part 11.

Vijeo Designer

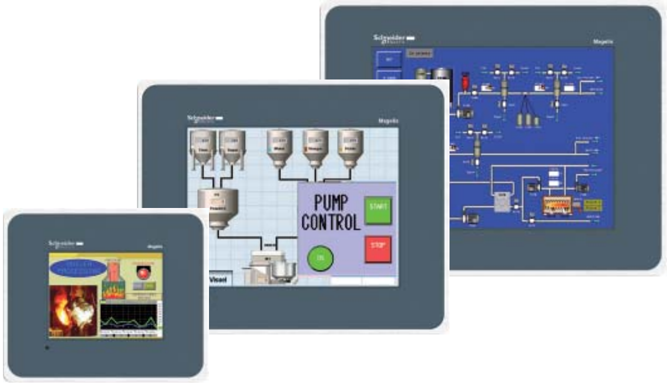
IDS

Operator dialogue terminals

Magelis™ GTO Optimum Advanced Panels

Applications		**Display of text messages, graphic objects and synoptic views** **Control and configuration of data**		
Type of terminal		**Optimum Advanced Panels, touch screen**		
Degree of protection (according to IEC 60529)		**IP 65 (IP 67 with addition of a cover)**		
Display	Type	Colour TFT LCD, backlit 320 x 240 pixels (QVGA)		Colour TFT LCD, backlit 800 x 480 pixels (WVGA)
	Capacity	3.5”	5.7”	7.0 Wide
Data entry		Via touch screen	Via touch screen	Via touch screen
	Static function keys	6 function keys (static or dynamic)	–	8 function keys (static or dynamic)
	Dynamic function keys		–	
	Service keys	–	–	–
	Alphanumeric keys	–	–	–
Memory capacity	Applications	64/96 MB Flash EPROM *(1)*		96 MB Flash EPROM
	Expansion	–	By 4 GB SD card (except HMI GTO2300)	
Functions	Maximum number of pages	Limited by internal Flash EPROM memory capacity	Limited by capacity of internal Flash EPROM memory or of SD card	
	Variables per page	Unlimited (8000 variables max.)		
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED		
	Recipes	32 groups of 64 recipes comprising 1024 ingredients max.		
	Curves	Yes, with log		
	Alarm logs	Yes		
	Real-time clock	Built-in		
	Discrete I/O	–		
	Multimedia I/O	–		
Communication	Downloadable protocols	Uni-TE *(2)*, Modbus, Modbus TCP/IP *(1)* and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens		
	Asynchronous serial link	RS 232C (COM1) and RS 485 (COM2) except HMI GTO1310: RS 232C/485 (COM1)		
	USB ports	1 type A host connector + 1 mini-B connector		
	Buses and networks	Ethernet TCP/IP (10BASE-T/100BASE-TX) *(3)*, Modbus Plus and Fipway via USB gateway		
	Printer link	RS 232C (COM1) serial link *(4)* and USB port for parallel printer		
Development software		Vijeo Designer (on Windows XP and Windows 7)		
Operating system		Magelis (333 MHz RISC CPU)		
Type of terminal		**HMI GTO1300** **HMI GTO1310**	**HMI GTO2300** **HMI GTO2310**	**HMI GTO3510**
Page		21		

(1) Depending on model.
(2) Uni-TE version V2 for Twido controller and TSX Micro/Premium platform.
(3) Except HMI GTO1300 and GTO2300 (Modbus Plus and Fipway via USB gateway only).
(4) Except HMI GTO1310 (USB port for parallel printer only).

Display of text messages, graphic objects and synoptic views Control and configuration of data					
Optimum Advanced Panels, touch screen			**Optimum Advanced Panels, touch screen, “Stainless Steel” version**		
IP 65 (IP 67 with addition of a cover)			**IP 66K (Front panel with stainless steel frame) for food & beverage environment**		
					
Colour TFT LCD, backlit 640 x 480 pixels (VGA)	Colour TFT LCD, backlit 640 x 480 pixels (VGA)	Colour TFT LCD, backlit 800 x 600 pixels (SVGA)	Colour TFT LCD, backlit 320 x 240 pixels (QVGA)	Colour TFT LCD, backlit 640 x 480 pixels (VGA)	Colour TFT LCD, backlit 800 x 600 pixels (SVGA)
7.5”	10.4”	12.1”	5.7”	10.4”	12.1”
Via touch screen					
–					
–					
–					
–					
96 MB Flash EPROM					
By 4 GB SD card					
Limited by capacity of internal Flash EPROM memory or of SD card					
Unlimited (8000 variables max.)					
Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED					
32 groups of 64 recipes comprising 1024 ingredients max.					
Yes, with log					
Yes					
Built-in					
–					
–					
Uni-TE *(2)*, Modbus, Modbus TCP/IP *(1)* and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens					
RS 232C (COM1) and RS 485 (COM2)					
1 type A host connector + 1 mini-B connector					
Ethernet TCP/IP (10BASE-T/100BASE-TX), Modbus Plus and Fipway via USB gateway					
RS 232C (COM1) serial link and USB port for parallel printer					
Vijeo Designer (on Windows XP and Windows 7)					
Magelis (333 MHz RISC CPU)					
HMI GTO4310	**HMI GTO5310**	**HMI GTO6310**	**HMI GTO2315**	**HMI GTO5315**	**HMI GTO6315**
21					

Operator dialogue terminals

Magelis™ GTO Optimum Advanced Panels

Magelis colour touch screen terminals HMI GTO●●●0 in 5 sizes from 3.5" to 12.1" (standard version)

Overview

The Optimum Advanced Panels (Magelis GTO) touch screen panels offer includes:

- A range of 8 colour touch screen terminals (TFT technology), available in a choice of 5 sizes
  - 3.5"
  - 5.7"
  - 7": 7 Wide and 7.5" (front identical in size)
  - 10.4"
  - 12.1"
- A range of 3 colour TFT touch screens available in 3 sizes:
  - 5.7"
  - 10.4"
  - 12.1"

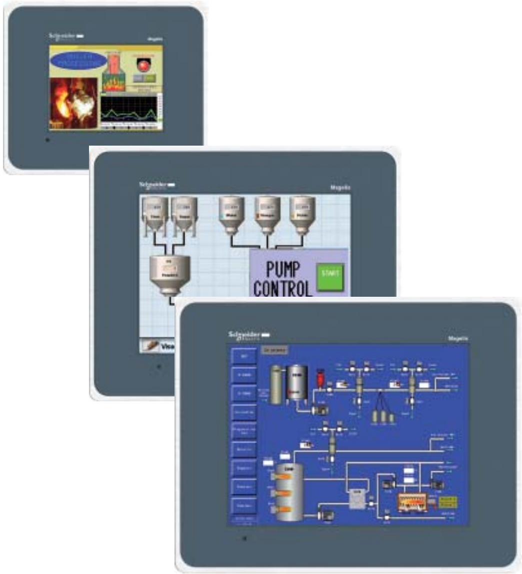
with front featuring a stainless steel frame, dedicated to applications in harsh environments (food & beverage and pharmaceutical).

Operation

Magelis GTO Advanced Panels feature optimized information and communication technologies, which, depending on the model, include:

- High level of communication (embedded Ethernet, multilink, Web server and FTP, e-mail)
- External storage of data (SD memory card and USB memory stick) for storing production data and backing up applications
- Management of peripherals: printers, bar code readers, etc.

These terminals offer an excellent level of technical performance designed principally for use by OEM customers.



Magelis colour touch screen terminals HMI GTO●●●5 in 3 sizes from 5.7" to 12.1" ("Stainless Steel" version)

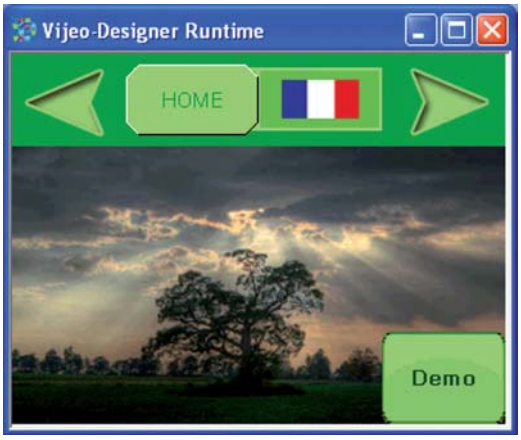
Environment

The Magelis GTO optimized range has been designed in accordance with numerous standards, certifications and requirements:

- Standards: EN 61131-2, 61000-6-2 and UL508.
- Certifications:
  - CE, C-tick, GOST-R, KCC
  - Atex and UL Hazardous location (pending)
  - Marine certifications (pending).
- Operating temperature: up to 55°C
- Degree of protection (according to IEC 60529):
  - IP 65 for standard version products
  - IP 67 for standard version products fitted with a cover for harsh environments (see accessories page 22)
  - IP 66K for "Stainless Steel" version products
- Resistance to high-pressure cleaning (conforming to DIN 40050-9): up to 10 bar for "Stainless Steel" version products.

Description: page 16
References: page 21
Connections: page 31
Substitution: page 35

Operator dialogue terminals
Magelis™ GTO Optimum Advanced Panels


Vijeo-Designer Runtime
HOME
Demo

Display of a video sequence

Configuration

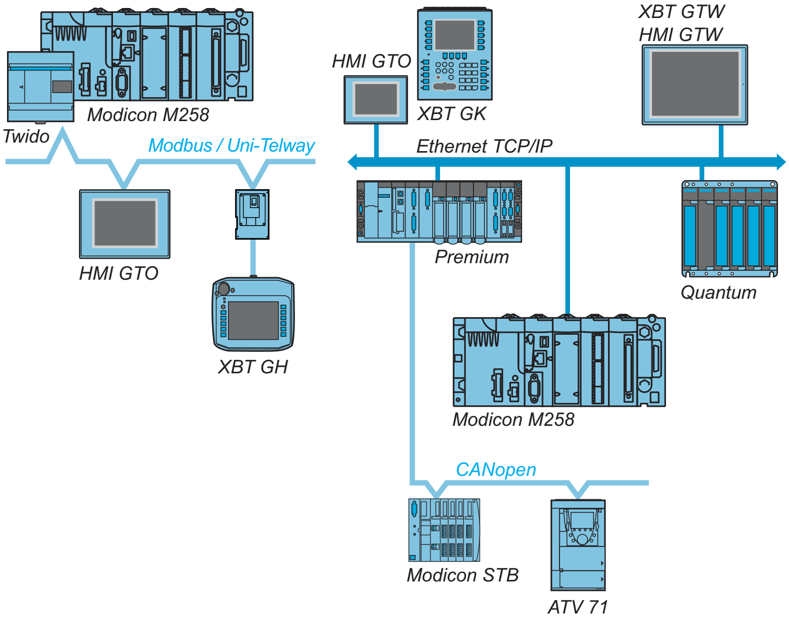
Like all the other Magelis Advanced Panels, Magelis GTO Optimum Advanced Panels can be configured using Vijeo Designer software in a Windows XP and Windows 7 environment.

Vijeo Designer software boasts an advanced user interface with many configurable windows, enabling projects to be developed quickly and easily.

The Magelis GTO range is compatible with Vijeo Designer version V6.1 or later.

See page 36349/2.

Communication


Twido
Modicon M258
Modbus / Uni-Telway
HMI GTO
XBT GH
HMI GTO
XBT GK
XBT GTW
HMI GTW
Ethernet TCP/IP
Premium
Quantum
Modicon M258
CANopen
Modicon STB
ATV 71

Optimum Advanced Panels communicate with PLCs via one or two integrated serial links, using communication protocols:

- Schneider Electric (Uni-TE, Modbus)
- Third-party: Mitsubishi Electric, Omron, Allen-Bradley and Siemens

Depending on the model, they can be connected to Ethernet TCP/IP networks using:

- A Modbus TCP protocol
- An Ethernet TCP/IP protocol
- or a third party protocol

Functions

Optimum Advanced Panels offer the following functions:

- Display of animated synoptic views with 8 types of animation (pressing the touch panel, colour changes, filling, movement, rotation, size, visibility and value display)
- Control, modification of numeric and alphanumeric values
- Display of current date and time
- Real-time and trending curves with log
- Alarm display, alarm log and management of alarm groups
- Multiwindow management
- Operator-initiated page calls
- Multilingual application management (10 languages at the same time)
- Recipe management
- Data processing via Java script
- Storage of the application and logs on external application memory card in SD format or USB stick
- Management of serial printers, barcode readers

Architectures and communication

The Magelis GTO Optimum range is perfectly integrated in the MachineStruxure™ *(1)* automation solutions offer, which helps machine manufacturers (OEMs) to quickly design optimized machines (in terms of cost and energy efficiency).

MachineStruxure™ solutions are based on high performance control platforms and a single software package: SoMachine. SoMachine allows the development, commissioning and programming of machines. SoMachine version 3.1 allows programming of terminals in the Magelis GTO range using Vijeo Designer software.

SoMachine software platform

Vijeo Designer configuration software

Optimum Advanced Panels have been designed for PlantStruxure™ *(2)* and MachineStruxure™ *(1)* architectures as well as for Transparent Ready equipment (combination of Web and Ethernet TCP/IP technologies). Therefore, all panels with an Ethernet port feature a built-in FTP server for data file transfer and a Web Gate function for remote access to the application of the panel from a PC with an Internet browser.

Vijeo Designer also allows Magelis Advanced Panels to browse HTML pages and send e-mails.

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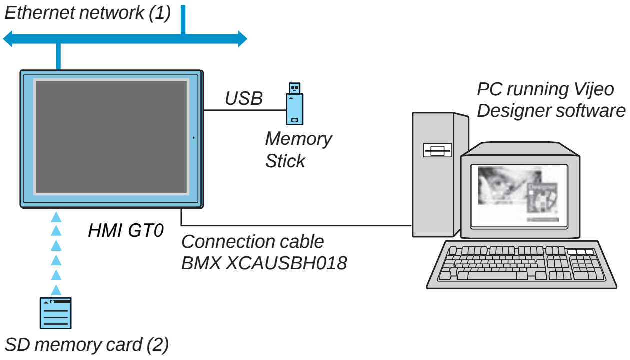
(1) For more information on the “MachineStruxure™” concept, please consult our catalogue “Automation solutions for industrial machines”.
(2) For more information on the “PlantStruxure™”concept, please consult our website www.schneider-electric.com/Solutions/Process and Machines Management.

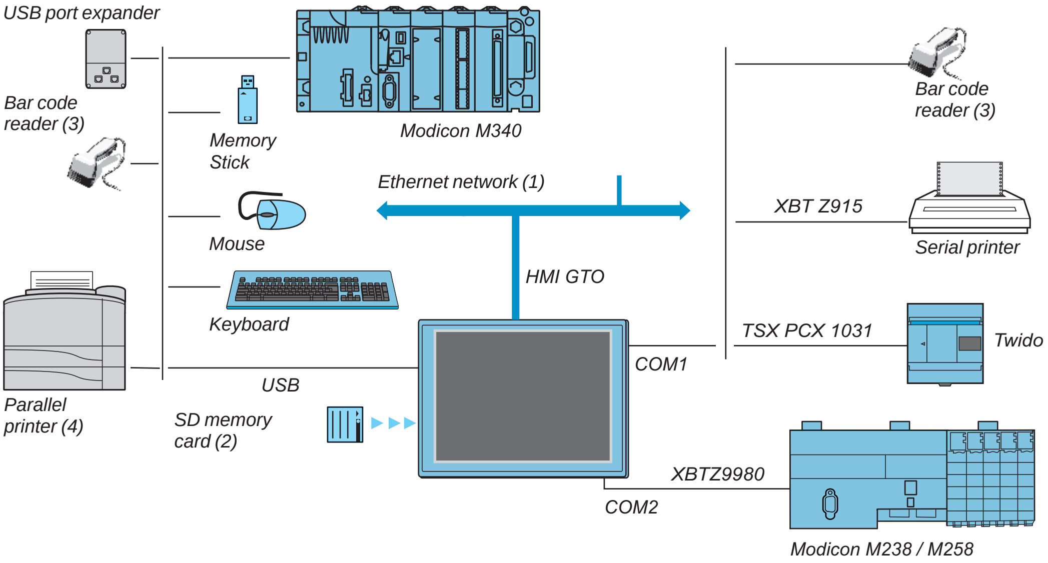
Panel operating modes

The following illustrations show the equipment that can be connected to Optimum Advanced Panels according to their two operating modes.

Edit mode


Ethernet network (1)
USB
Memory Stick
PC running Vijeo Designer software
HMI GT0
Connection cable BMX XCAUSBH018
SD memory card (2)

Operating mode


USB port expander
Bar code reader (3)
Parallel printer (4)
Memory Stick
Mouse
Keyboard
USB
SD memory card (2)
Modicon M340
Ethernet network (1)
HMI GTO
COM1
COM2
XBTZ9980
Bar code reader (3)
XBT Z915
Serial printer
TSX PCX 1031
Twido
Modicon M238 / M258

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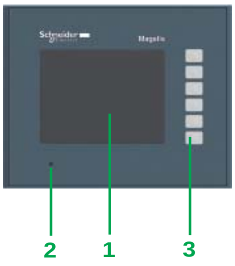
(1) With **HMI GTO●●1●.**
(2) Memory card, except HMI GTO1300/1310/2300.
(3) Validated with DataLogic Gryphon bar code reader.
(4) Validated with Hewlett Packard printer via USB/PIO converter.

Description

Magelis HMI GTO1300 / 1310 Advanced Panels

HMI GTO1300 and HMI GTO1310 panels have the following features on the front:

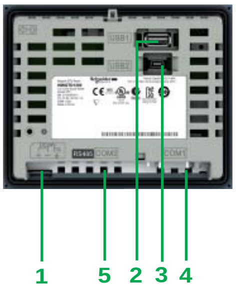
Common front

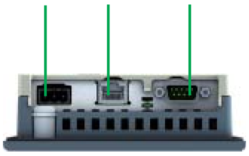


1 A touch screen for displaying synoptic views (3.5” colour TFT)
2 A multicolour indicator (green, orange and red) showing the panel's operating mode
3 Six function keys (F1, F2, F3, F4, F5 and F6)

The HMI GTO1300 panel has the following features on the rear and underside:

Rear HMI GTO1300



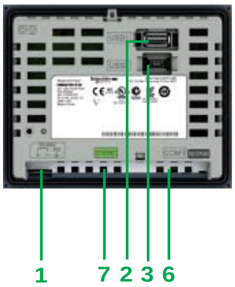


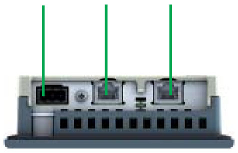
Underside HMI GTO1300

1 A removable screw terminal block for 24 V ⎓ power supply
2 A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication
3 A mini-B USB connector for application transfer
4 A 9-way male SUB-D connector for RS 232C serial link to PLCs (COM1)
5 An RJ45 connector for RS 485 serial link to PLCs (COM2)

The HMI GTO1310 panel has the following features on the rear and underside:

Rear HMI GTO1310





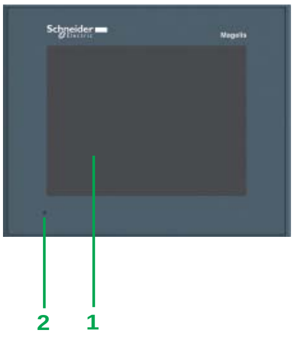
Underside HMI GTO1310

1 A removable screw terminal block for 24 V ⎓ power supply
2 A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication
3 A mini-B USB connector for application transfer
6 An RJ45 connector for RS 232C or RS 485 serial link to PLCs (COM1)
7 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX

Description

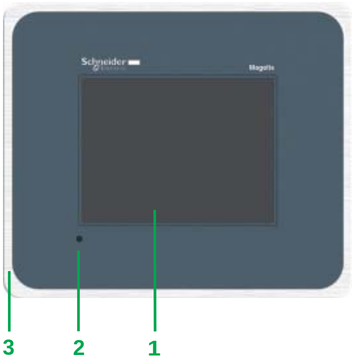
Magelis Advanced Panels HMI GTO2300 / 2310 (standard version) and HMI GTO2315 (Stainless Steel version)

Front



HMI GTO2300 and HMI GTO2310 panels have the following features on the front:

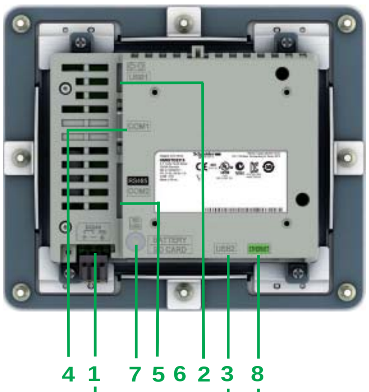
1 A touch screen for displaying synoptic views (5.7” colour TFT)
2 A multicolour indicator (green, orange and red) showing the panel’s operating mode

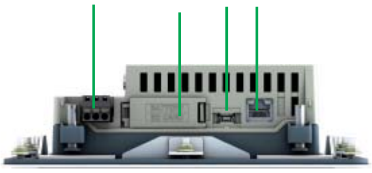


The HMI GTO2315 panel has the following features on the front:

1 A touch screen for displaying synoptic views (5.7” colour TFT)
2 A multicolour indicator (green, orange and red) showing the panel’s operating mode
3 A stainless steel frame, for food & beverage environments. Only this product provides IP 66K degree of protection.

Rear HMI GTO2315





Underside HMI GTO2315

All 3 of these panels have the following features on the rear and underside:

1 A removable screw terminal block for 24 V ⎓ power supply
2 A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication
3 A mini-B USB connector for application transfer
4 A 9-way male SUB-D connector for RS 232C serial link to PLCs (COM1)
5 An RJ45 connector for RS 485 serial link (COM2)

On HMI GTO2310 and HMI GTO2315 only:

6 A slot for SD memory card, with hinged cover
7 LED indicating presence of the SD memory card
8 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX

Description (continued)

Operator dialogue terminals

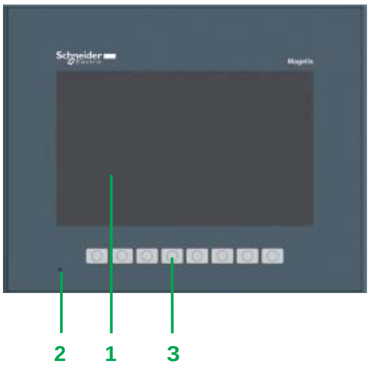
Magelis™ GTO Optimum Advanced Panels

Panels with 7.0” Wide and 7.5” touch screen

Description

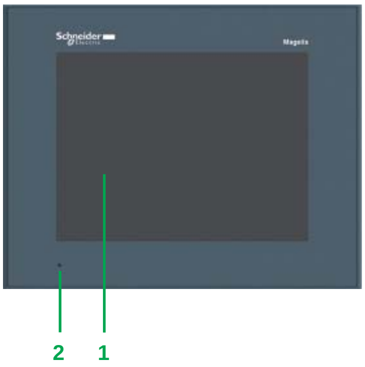
Magelis Advanced Panels HMI GTO3510 / 4310

Front



The HMI GTO3510 panel has the following features on the front:

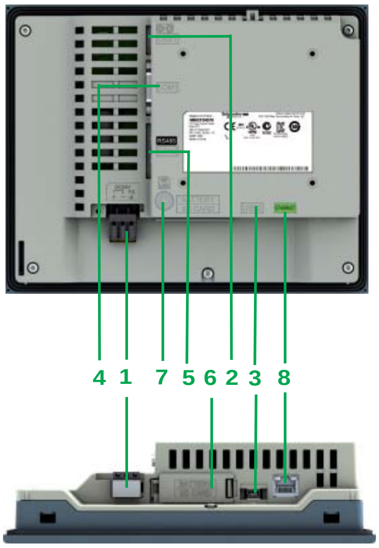
1 A touch screen for displaying synoptic views (7.0” Wide colour TFT)
2 A multicolour indicator (green, orange and red) showing the panel’s operating mode
3 Eight function keys (F1, F2, F3, F4, F5, F6, F7 and F8)



The HMI GTO4310 panel has the following features on the front:

1 A touch screen for displaying synoptic views (7.5” colour TFT)
2 A multicolour indicator (green, orange and red) showing the panel’s operating mode

Rear



Underside

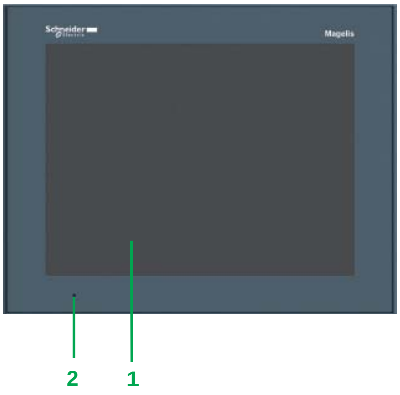
Both terminals have the following features on the rear and underside:

1 A removable screw terminal block for 24 V ⎓ power supply
2 A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication
3 A mini-B USB connector for application transfer
4 A 9-way male SUB-D connector for RS 232C serial link to PLCs (COM1)
5 An RJ45 connector for RS 485 serial link (COM2)
6 A slot for SD memory card, with hinged cover
7 LED indicating presence of the SD memory card
8 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX with an activity LED

Description

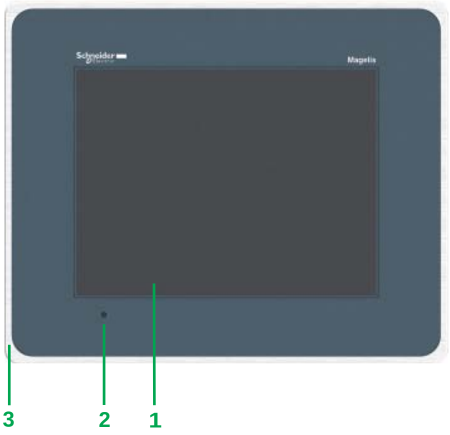
Magelis Advanced Panels HMI GTO5310 (standard version) and HMI GTO5315 (Stainless Steel version)

Front



The HMI GTO5310 panel has the following features on the front:

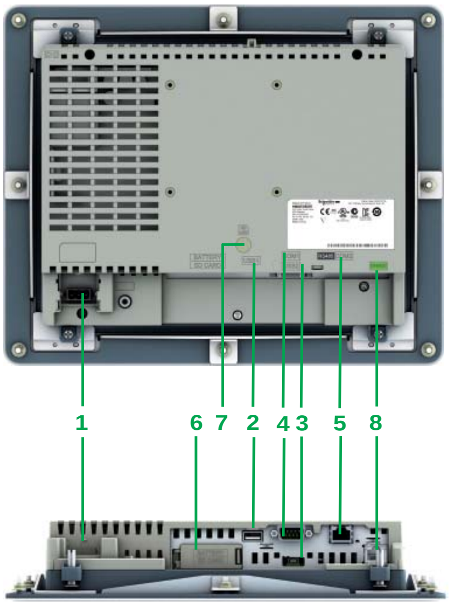
1 A touch screen for displaying synoptic views (10.4” colour TFT)
2 A multicolour indicator (green, orange and red) showing the panel’s operating mode



The HMI GTO5315 panel has the following features on the front:

1 A touch screen for displaying synoptic views (10.4” colour TFT)
2 A multicolour indicator (green, orange and red) showing the panel’s operating mode
3 A stainless steel frame, for food & beverage environments. Only this product provides IP 66K degree of protection.

Rear



Underside

Both terminals have the following features on the rear and underside:

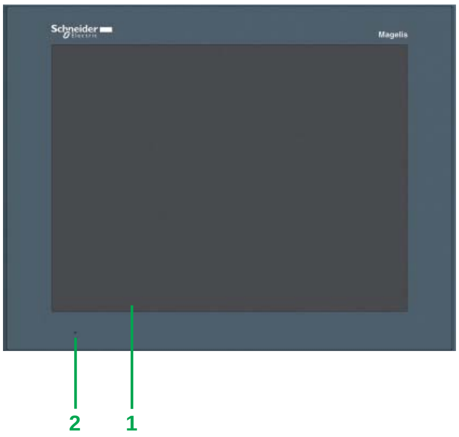
1 A removable screw terminal block for the 24 V ⎓ power supply
2 A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication
3 A mini-B USB connector for application transfer
4 A 9-way male SUB-D connector for RS 232C serial link to PLCs (COM1)
5 An RJ45 connector for RS 485 serial link (COM2)
6 A slot for SD memory card, with hinged cover
7 LED indicating presence of the SD memory card
8 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX with an activity LED

Operator dialogue terminals

Magelis™ GTO Optimum Advanced Panels

Panels with 12.1” touch screen, standard and Stainless Steel version

Front

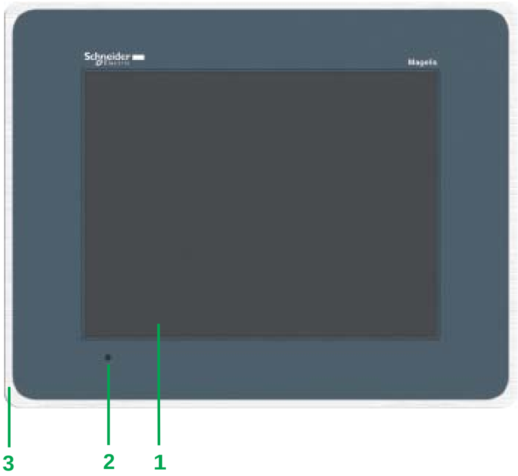


Description

Magelis Advanced Panels HMI GTO6310 (standard version) and HMI GTO6315 (Stainless Steel version)

The HMI GTO6310 panel has the following features on the front:

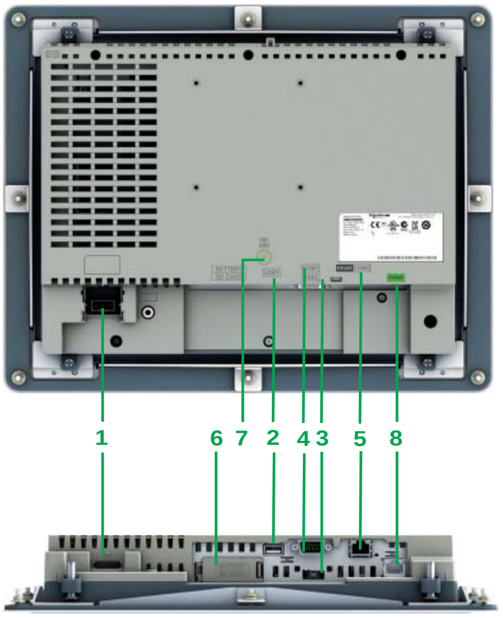
1 A touch screen for displaying synoptic views (12.1” colour TFT)
2 A multicolour indicator (green, orange and red) showing the panel’s operating mode



The HMI GTO6315 panel has the following features on the front:

1 A touch screen for displaying synoptic views (12.1” colour TFT)
2 A multicolour indicator (green, orange and red) showing the panel’s operating mode
3 A stainless steel frame, for food & beverage environments. Only this product provides IP 66K degree of protection.

Rear



Underside

Both terminals have the following features on the rear and underside:

1 A removable screw terminal block for the 24 V ⎓ power supply
2 A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication
3 A mini-B USB connector for application transfer
4 A 9-way male SUB-D connector for RS 232C serial link to PLCs (COM1)
5 An RJ45 connector for RS 485 serial link (COM2)
6 A slot for SD memory card, with hinged cover
7 LED indicating presence of the SD memory card
8 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX with an activity LED

Operator dialogue terminals

Magelis™ GTO Optimum Advanced Panels

Panels with 3.5” to 12.1” touch screen

PF112400

HMI GTO13●●

PF112401

HMI GTO23●●

PF112403

HMI GTO3510

PF112404

HMI GTO4310

PF112407

HMI GTO6310

Optimum 24 V DC panels with colour touch screen, standard version (1)

Data entry method	Number of ports	Application memory capacity	Memory expansion by SD card	Serial link	Embedded Ethernet	Reference	Weight kg
3.5” QVGA TFT LCD screen, 320 x 240 pixels							
Via touch screen + 6 function keys	2 USB	64 MB	No	1 COM 1 1 COM 2	–	**HMI GTO1300**	0.400
	2 USB	96 MB	No	1 COM 1	1	**HMI GTO1310**	0.400
5.7” QVGA TFT LCD screen, 320 x 240 pixels							
Via touch screen	2 USB	64 MB	No	1 COM 1 1 COM 2	–	**HMI GTO2300**	0.800
	2 USB	96 MB	Yes *(2)*	1 COM 1 1 COM 2	1	**HMI GTO2310**	0.800
7.0” WVGA (Wide) TFT LCD screen, 800 x 480 pixels							
Via touch screen + 8 function keys	2 USB	96 MB	Yes *(2)*	1 COM 1 1 COM 2	1	**HMI GTO3510**	1.200
7.5” VGA TFT LCD screen, 640 x 480 pixels							
Via touch screen	2 USB	96 MB	Yes *(2)*	1 COM 1 1 COM 2	1	**HMI GTO4310**	1.200
10.4” VGA TFT LCD screen, 640 x 480 pixels							
Via touch screen	2 USB	96 MB	Yes *(2)*	1 COM 1 1 COM 2	1	**HMI GTO5310**	2.000
12.1” SVGA TFT LCD screen, 800 x 600 pixels							
Via touch screen	2 USB	96 MB	Yes *(2)*	1 COM 1 1 COM 2	1	**HMI GTO6310**	2.500

PF112402

HMI GTO2315

PF112406

HMI GTO5315

Optimum 24 V DC terminals with colour touch screen, Stainless Steel version (1) (3)

Data entry method	Number of ports	Application memory capacity	Compact Flash memory	Composite video input	Embedded Ethernet	Reference	Weight kg
5.7” QVGA screen, 320 x 240 pixels, with stainless steel frame (IP 66K)							
Via touch screen	2 USB	96 MB	Yes *(2)*	1 COM 1 1 COM 2	1	**HMI GTO2315**	1.200
10.4” VGA screen, 640 x 480 pixels, with stainless steel frame (IP 66K)							
Via touch screen	2 USB	96 MB	Yes *(2)*	1 COM 1 1 COM 2	1	**HMI GTO5315**	2.500
12.1” SVGA screen, 800 x 600 pixels, with stainless steel frame (IP 66K)							
Via touch screen	2 USB	96 MB	Yes *(2)*	1 COM 1 1 COM 2	1	**HMI GTO6315**	3.000

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(1) Terminals supplied with fixing kit (screw clips), locking device for USB connectors and instruction sheet. Setup documentation for Magelis GTO terminals is included in electronic format with Vijeo Designer configuration software.

*(2) Memory expansion possible with 4 GB SD card **HMI ZSD4G**, see accessories page 22.*

(3) The Stainless Steel version includes a front with stainless steel frame. Only this version provides IP 66K degree of protection.

Presentation:
page 12

Description:
page 16

Connections:
page 31

Substitution:
page 35

Operator dialogue terminals
Magelis™ Advanced Panels
Separate parts for terminals
Magelis GT/GTO/GK/GH/GTW

XBT ZGM●●●

Separate components

Description	Characteristics	Compatible with terminals	Reference	Weight kg
Compact Flash memory cards	128 MB, blank	XBT except XBT GT1●●●/GT2110	**XBT ZGM128**	0.050
	256 MB, blank		**XBT ZGM256**	0.050
	512 MB, blank		**MPC YN0 0CFE 00N**	0.050
	1 GB, blank		**MPC YN0 0CF1 00N**	–
	2 GB, blank		**MPC YN0 0CF2 00N**	–
	4 GB, blank	XBT GTW only	**MPC YN0 0CF4 00N**	–
SD memory card	4 GB, blank	HMI GTO only	**HMI ZSD4G**	–
Maintenance kits	Includes fixings and seals for panel mounting	MPC ST1 1N●J 00T (8.4” screen)	**MPC YK1 0MNT KIT**	–
		MPC ST2 1N●J20● (12” screen)	**MPC YK2 0MNT KIT**	–
		MPC ST5 2NDJ 10 (15” screen)	**MPC YK5 0MNT KIT**	–
Protective sheets (5 peel-off sheets)	–	XBT GT1105 / GT1135 / GT1335	**XBT ZG60**	–
		XBT GT1100 / GT1130	**XBT ZG61**	–
		XBT GT21●0 / GT2220 / GT2●30	**XBT ZG62**	0.200
		XBT GT4230 / GT43●0	**XBT ZG64**	0.200
		XBT GT53●0 / XBT GT54●0	**XBT ZG65**	0.200
		XBT GT5230 / GT63●0	**XBT ZG66**	0.200
		XBT GK 2●●0 / GH2460	**XBT ZG68**	–
		XBT GK 5330	**XBT ZG69**	–
		XBT GT7340 / HMI GTW 7353	**MPC YK5 0SPS KIT**	0.200
		XBT GTW450	**MPC YK1 0SPS KIT**	–
		XBT GTW652	**MPC YK2 0SPS KIT**	–
		HMI GTO1300 / 1310	**HMI ZG60**	–
		HMI GTO2300 / 2310 / 2315	**HMI ZG62**	–
		HMI GTO3510	**HMI ZG63**	–
		HMI GTO4310	**HMI ZG64**	–
		HMI GTO5310 / 5315	**HMI ZG65**	–
		HMI GTO6310 / 6315	**HMI ZG66**	–
Plastic protective covers Sold in lots of 5		XBT GT2●●●	**XBT ZG70**	–
		XBT GT53●●	**XBT ZG71**	–
Plastic covers for harsh environments (IP 67 protection)	–	HMI GTO1300 / HMI GTO1310	**HMI ZECOV1**	–
		HMI GTO2300 / HMI GTO2310	**HMI ZECOV2**	–
		HMI GTO3510 / HMI GTO4310	**HMI ZECOV4**	–
		HMI GTO5310 / HMI GTO5315	**HMI ZECOV5**	–
		HMI GTO6310 /HMI GTO6315	**HMI ZECOV6**	–

Presentation:
page 12

Description:
page 16

Connections:
page 31

Substitution:
page 35

Operator dialogue terminals

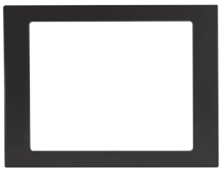
Magelis™ Advanced Panels

Replacement parts for terminals

Magelis GT/GTO/GK/GH/GTW

Separate components (continued)

Description	Characteristics	Compatible with terminals	Reference	Weight kg
Spring fixing clips Sold in lots of 12	Number of spring clips depending on terminal	XBT GT	**XBT Z3002**	–
Wall mounting kit	Fixing components for mounting XBT GH terminal on a wall	XBT GH	**XBT ZGWMKT**	–
Neck strap	For use with XBT GH hand-held terminal	XBT GH	**XBT ZGNSTP**	–



XBT ZGCO●

XBT ZGUSB

Description	Description	Length m.	Reference	Weight (kg)
Mechanical adaptors for substitution of terminals of the Magelis range	From XBT F032●10 to XBT GT2●●0	–	**XBT ZGCO1**	–
	From XBT G2110 to XBT GT2●●0	–	**XBT ZGCO2**	–
	From XBT F034●●● to XBT GT53●0	–	**XBT ZGCO3**	–
	From XBT G5330 to XBT GT5330 From XBT GT5230 to HMI GTO5310	–	**XBT ZGCO4**	–
Remote USB port for terminals XBT GT2●●0…GT7340, XBT GT1●●5, XBT GK●●●, XBT GTW●●●	Enables the USB type A port to be located remotely on the rear of the XBT terminal on a panel or enclosure door (Ø 21 mm fixing device)	1	**XBT ZGUSB**	–
Remote USB port for terminals XBT GT2●●0…GT7340, XBT GT1●●5, XBT GK●●●, XBT GTW●●● HMI GTO	Enables the USB mini-B port to be located remotely on the rear of the XBT or HMI GTO terminal on a panel or enclosure door (Ø 21 mm fixing device)	1	**XBT ZGUSBB**	–
Remote USB port for HMI GTO panel	Enables the USB mini-B port to be located remotely on the rear of the HMI GTO panel, on a panel or enclosure door (Ø 21 mm fixing device)	1	**HMI ZSUSBB**	–
Adaptor for Compact Flash cards	Enables a PC with a PCMCIA card slot to take a Compact Flash card	–	**XBT ZGADT**	0.050

Operator dialogue terminals
Magelis™ Advanced Panels
Replacement parts for terminals
Magelis GT/GTO/GK/GH/GTW

Spare parts

Description	For use with terminals	Reference	Weight kg
Seals	XBT GH (for junction box)	**XBT ZG5H**	–
	XBT GT1100 / GT1130 / GT1105 / GT1135 / GT1335	**XBT ZG51**	0.030
	XBT GT21●0 / GT2220 / GT2330	**XBT ZG52**	0.030
	XBT GT4230 / GT43●0	**XBT ZG54**	0.030
	XBT GT53●0	**XBT ZG55**	0.030
	XBT GT5230 / GT63●0	**XBT ZG56**	0.030
	XBT GT7340	**XBT ZG57**	0.030
	XBT GK2●●0	**XBT ZG58**	–
	XBT GK5330	**XBT ZG59**	–
	HMI GTO1300 / 1310	**HMI ZG51**	–
	HMI GTO2300 / 2310	**HMI ZG52**	–
	HMI GTO2315	**HMI ZG522**	–
	HMI GTO3510 / 4310	**HMI ZG54**	–
	HMI GTO5310	**HMI ZG55**	–
	HMI GTO5315	**HMI ZG552**	–
	HMI GTO6310	**HMI ZG56**	–
	HMI GTO6315	**HMI ZG562**	–
Backlighting lamps	XBT GT5230	**XBT ZG43**	0.100
	XBT GT53●0	**XBT ZG45**	0.200
	XBT GT53●0 PV ≥ 3 / XBT GT54●0	**XBT ZG45B**	0.200
	XBT GT63●0	**XBT ZG46**	0.200
	XBT GT7340	**XBT ZG47**	0.200
USB fastenings **Sold in lots of 5**	XBT GT1●●0 / GT2●●0 / GT4●●0	**XBT ZGCLP1**	–
	XBT GT1●●5 / GT5●●0 / GT6●●0 / GT7●●0	**XBT ZGCLP2**	–
	XBT GK	**XBT ZGCLP3**	–
	HMI GTO (USB type A)	**HMI ZGCLP1**	–
	HMI GTO (USB type mini-B)	**HMI ZSCLP3**	–
Fixing kit	4 clips and screws (max. tightening torque: 0.5 Nm), supplied with all XBT GT terminals	**XBT ZG FIX**	0.100
	4 clips and screws (max. tightening torque: 0.5 Nm), supplied with all HMIGTO●●●0 terminals	**HMI ZGFIX**	0.030
	8 nuts and 4 L-shaped brackets, supplied with all HMIGTO●●●5 terminals	**HMI ZGFIX2**	0.030
Extension connector protection	XBT GT/GK, except XBT GT1●●●	**XBT ZGCNC**	0.030
Power supply connector **Sold in lots of 5**	XBT GT1●●● / GT2●●● / GT4●●● XBT GK2●●●	**XBT ZGPWS1**	0.030
	XBT GT5●●● / 6●●● / 7●●● XBT GK5●●● XBT GTW●●●	**XBT ZGPWS2**	–
	HMI GTO (direct connection)	**HMI ZGPWS**	0.030
	HMI GTO (right angle connection)	**HMI ZGPWS2**	0.030
Auxiliary connector	XBT GT4●●● / 5●●● / 6●●● / 7●●●, XBT GK5●●●	**XBT ZGAUX**	–
Sheets of customizable labels for XBT GK/GH terminals **Sold in lots of 10**	XBT GK2●●0	**XBL YGK2**	0.030
	XBT GK5●●●	**XBL YGK5**	–
	XBT GH	**XBL YGH2**	–
Sheets of customizable labels for HMI GTO terminals	HMI GTO1300 / 1310	**HMI ZLYGO1**	–
	HMI GTO3510	**HMI ZLYGO3**	–
Stylus **Sold in lots of 5**	XBT GH	**XBT ZGPEN**	–
Emergency stop button protection	XBT GH	**XBT ZGESGD**	–
Hand strap	XBT GH	**XBT ZGHSTP**	–
Battery	HMI GTO except HMI GTO1300 / 1310 / 2300	**HMI ZGBAT**	–

Cables for application transfer - Terminal to PC

Type of terminal (terminal end connector)	Connector (PC end)	Type	Length m	Reference *(1)*	Weight kg
XBT GT2●●0...GT7340, **XBT GT1●●5, XBT GK,** **XBT GH** **XBT GTW**	USB	TTL	2	**XBT ZG935**	0.290
HMI GTO	USB	USB	1.80	**BMX XCAUSBH018**	–

Printer connection cables

Type of printer *(2)*	Connector (printer end)	Type	Length m	Reference	Weight (kg)
Serial printer for XBT GT/GK/GTW terminals (except XBT GT1●●●) and **HMI GTO panels** (except HMI GTO1310)	SUB-D female 25-way	RS 232C (COM1)	2.5	**XBT Z915**	0.200
Serial printer for XBT GT/GK/GTW terminals and HMI GTO panels	USB	RS 232C (COM1)	1.80	**HMI ZURS**	–

Adaptors and isolation boxes for XBT terminals and HMI GTO panels

These 3 adaptors are used with the connection cables depending on the application concerned.
For example, the XBT Z968 cable is used with the XBT ZG909 adaptor, to connect a Twido controller (via its terminal port) to an XBT GT2●●0 terminal (via its COM1 port).

Description	Type of connector (automation product end)	Physical link (XBT or HMI GTO terminal end)	Length m	Reference	Weight kg
Adaptor for **XBT GT1●●●** (COM1 port) **XBT GT2●●0...7340** **XBT GK** (COM2 port) **HMI GTO**	25-way SUB-D connector	RJ 45 connector	0.2	**XBT ZG939**	–
Adaptors for **XBT GT2●●0...7340** **XBT GK** (COM1 port) **XBT GTW** (COM1 and COM2 ports) **HMI GTO** (COM1 port)	25-way SUB-D connector	9-way SUB-D connector, RS 485 on XBT terminal only	0.2	**XBT ZG909** *(3)*	–
		9-way SUB-D connector, RS 232C	0.2	**XBT ZG919**	–

XBT ZGI485

Description	For use with	Link to isolate	Reference	Weight kg
Serial link isolation units for **XBT GT2●●0...7340** **XBT GK** **HMI GTO**	- Connection to serial port of XBT terminal - Isolated link on 9-way SUB-D connector *(4)* - Box power supply via USB port of terminal. Incorporates a USB port expander.	RS 232C/RS 485 (COM1)	**XBT ZGI232**	–
		RS 485 (COM2)	**XBT ZGI485**	–

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(1) Cable included (depending on model) with Vijeo Designer software packages.
(2) Parallel printer (see page 15).
(3) This adaptor cannot be used with Magelis GTO terminals.
(4) Male connector with **XBT ZGI232**, *female connector with* **XBT ZGI485**.

References (continued)

Operator dialogue terminals

Magelis™ Advanced Panels

Connection accessories for terminals Magelis GT/GTO/GK/GH/GTW

TSX PCX 1031

Cables for connecting Magelis terminals to other Schneider Electric products

Automation product type	Type of connector (automation product end)	Protocol	Type of terminal	Link	On port	Length m	Reference	Weight kg
Twido, Nano, Modicon TSX Micro, Modicon Premium	Terminal port, 8-way female mini-DIN	Uni-TE (V1/V2), Modbus	XBT GT1●●● XBT GT2●●0...7340 XBT GK HMI GTO	RS 485	COM1 COM2	2.5	**XBT Z9780**	0.180
						10	**XBT Z9782**	–
			XBT GT2●●0...7340 XBT GK	RS 485	COM1	2.5	**XBT Z968** + *(2)*	0.180
						5	**XBT Z9681** + *(2)*	0.340
			XBT GT2●●0...7340 XBT GK XBT GH (Junction box)	RS 485	COM1	2.5	**XBT Z9018**	0.170
			XBT GTW●● XBT GH (Junction box) HMI GTO	RS 232	COM1	2.5	**TSX PCX 1031**	–
Modicon M340 Modicon M238 Modicon M258	RJ45	Modbus	XBT GT1●●● HMI GTO XBT GT2●●0...7340 XBT GK	RS 485	COM1 COM2	2.5	**XBT Z9980**	0.230
						10	**XBT Z9982**	–
			XBT GT2●●0...7340 XBT GK XBT GH (Junction box)	RS 485	COM1	1.8	**XBT Z938** + *(2)*	0.230
						2.5	**XBT Z9008**	–
	USB Mini-B	Terminal port	XBT GT *(4)* XBT GK/GTW HMI GTO	USB	USB type A	1.8	**BMX XCA USB H018**	0.230
						4.5	**BMX XCA USB H045**	–
Modicon Premium with TSX SCY 2160●	25-way female SUB-D	Uni-TE (V1/V2)	XBT GT1●●●	RS 485	COM1	2.5	**XBT Z918** + *(1)*	0.230
			XBT GT2●●0...7340 XBT GK XBT GH (Junction box)	RS 485	COM1	2.5	**XBT Z918** +*(2)*	0.230
Modicon Quantum	9-way male SUB-D	Modbus	XBT GT1●●●	RS 232C	COM1	2.5	**XBT Z9710** + *(1)*	0.210
			XBT GT2●●0...7340 XBT GK / GTW XBT GH (Junction box) HMI GTO	RS 232C	COM1	2.5	**XBT Z9710** + *(3)*	0.210
						3.7	**990 NAA 263 20**	0.290
Modicon STB	HE13 (NIM, network interface module)	Modbus	XBT GT1●●●	RS 232C	COM1	2.5	**XBT Z988** + *(1)*	0.220
							XBT Z9715	–
			XBT GT2●●0...7340 XBT GK / GTW XBT GH (Junction box) HMI GTO	RS 232C	COM1	2	**STB XCA 4002**	0.210
						2.5	**XBT Z988** + *(3)*	0.220
Modicon Momentum M1	RJ45 (port 1 on Momentum M1)	Modbus	XBT GT1●●●	RS 232C	COM1	2.5	**XBT Z9711** + *(1)*	0.210
			XBT GT2●●0...7340 XBT GK XBT GTW XBT GH (Junction box) HMI GTO	RS 232C	COM1	2.5	**XBT Z9711** + *(3)*	0.210
TeSys U, T starters ATV 312/61/71 variable speed drives ATS 48 starters Lexium 05 Preventa XPSMC	RJ45	Modbus	XBT GT1●●● XBT GT2●●0...7340 XBT GK HMI GTO	RS 485	COM1 COM2	3	**VW3 A8 306 R30**	0.060
						2.5	**XBT Z9980**	–
						10	**XBT Z9982**	–
			XBT GT2●●0...7340 XBT GK XBT GH (Junction box)	RS 485	COM1	2.5	**XBT Z9008**	–

(1) Adaptor **XBT ZG939** *to be used with cables with " + (1) " after the reference.*
(2) Adaptor **XBT ZG909** *to be used with cables with " + (2) " after the reference.*
(3) Adaptor **XBT ZG919** *to be used with cables with " + (3) " after the reference.*
(4) Except XBT GT1●●0.

Presentation:
page 12

Description:
page 16

Connections:
page 31

Substitution:
page 35

Cables and adaptors for connecting Magelis terminals to third-party PLCs

Mitsubishi, Melsec PLCs

XBT ZG9772

XBT ZG9731

Description ***Driver used***	**Type of terminal**	**Type of connector** (fitted to cable, excluding adaptor)	**Physical link** (COM1)	**Length m**	**Reference**	**Weight kg**
Connection cable, ***A CPU*** ***(SIO)***	XBT GT2●●0...7340 XBT GK XBT GH (Junction box)	9-way SUB-D 25-way SUB-D	RS 422	5	**XBT ZG9773**	–
Connection cable, ***Q Link*** ***(SIO)***	XBT GT2●●0...7340 XBT GK / GTW XBT GH (Junction box) HMI GTO	9-way SUB-D 9-way SUB-D	RS 232C	5	**XBT ZG9772**	–
Connection cable, ***Q CPU*** ***(SIO)***	XBT GT2●●0...7340 XBT GK / GTW XBT GH (Junction box) HMI GTO	9-way SUB-D mini-DIN	RS 232C	5	**XBT ZG9774**	–
Connection cable, ***A Link*** ***(SIO)***	XBT GT2●●0...7340 XBT GK / GTW XBT GH (Junction box) HMI GTO	9-way SUB-D 25-way SUB-D	RS 232C	5	**XBT ZG9731**	–
Connection cable, ***FX*** ***(CPU)***	XBT GT2●●0...7340 XBT GK XBT GH (Junction box)	9-way SUB-D mini-DIN	RS 422	5	**XBT ZG9775**	–
	XBT GT1●●●	25-way SUB-D mini-DIN	RS 422	5	**XBT Z980** + *(1)*	–
	HMI GTO	9-way SUB-D mini-DIN	RS 232/ RS 422	5	**HMI Z951** ▲	–
Cable for 2-port adaptor, ***FX*** ***(CPU),*** ***A CPU*** ***(SIO)*** ***QnA CPU*** ***(SIO)***	XBT GT2●●0...7340 XBT GK XBT GH (Junction box)	9-way SUB-D Flying leads	RS 422	5	**XBT ZG9778** + *(4)*	–
Adaptor unit ***FX*** ***(CPU),*** ***A CPU*** ***(SIO)*** ***QnA CPU*** ***(SIO)***	XBT GT2●●0...7340 XBT GK XBT GH (Junction box)	2-port unit Screw terminals / 2 x 9-way SUB-D	RS 422	–	**XBT ZG979**	–

Omron, Sysmac PLCs

Description ***Driver used***	**Type of terminal**	**Type of connector** (fitted to cable, excluding adaptor)	**Physical link** (COM1)	**Length m**	**Reference**	**Weight kg**
Connection cables, ***Link*** ***(SIO)***	XBT GT1●●●	25-way SUB-D 9-way SUB-D	RS 232C	2.5	**XBT Z9740** + *(1)*	0.210
					XBT Z9743	–
	XBT GT2●●0...7340 XBT GK/GTW XBT GH (Junction box) HMI GTO	9-way SUB-D 9-way SUB-D	RS 232C	5	**XBT ZG9740**	–
		9-way SUB-D 25-way SUB-D	RS 232C	5	**XBT ZG 9731**	–
Connecting cables ***FINS*** ***(SIO)***	XBT GT1●●●	25-way SUB-D 9-way SUB-D	RS 232C	2.5	**XBT Z9740** + *(1)*	0.210
					XBT Z9743	–
	XBT GT2●●0...7340 XBT GK/GTW XBT GH (Junction box) HMI GTO	9-way SUB-D 9-way SUB-D	RS 232C	5	**XBT ZG9740**	–

(1) Adaptor **XBT ZG939** *to be used with cables with " + (1) " after the reference (see page 25).*
(4) Adaptor **XBT ZGCOM1** *(9-way female/female SUB-D) to be used with cables with " + (4)"* after the reference *(***XBT ZG9778***).*

▲ Available: 3rd quarter 2012

Presentation:
page 12
Description:
page 16
Connections:
page 31
Substitution:
page 35

XBT ZG9731

Cables and adaptors for connecting Magelis terminals to third-party PLCs (continued)

Rockwell Automation, Allen-Bradley PLCs

Description ***Driver used***	**Type of terminal**	**Type of connector** (fitted to cable, excluding adaptor)	**Physical link** (COM1)	**Length** m	**Reference**	**Weight** kg
Connection cables ***DF1 Full Duplex***	XBT GT1●●●	25-way SUB-D 9-way SUB-D	RS 232C	2.5	**XBT Z9730** + *(1)*	0.210
					XBT Z9733	–
		25-way SUB-D 8-way mini-DIN	RS 232C	2.5	**XBT Z9731** + *(1)*	0.210
	XBT GT2●●0...7340 XBT GK/GTW XBT GH (Junction box) HMI GTO	9-way SUB-D 25-way SUB-D	RS 232C	5	**XBT ZG9731**	–
Connection cables, ***DH485***	XBT GT1●●●	25-way SUB-D 9-way SUB-D	RS 232C	2.5	**XBT Z9734**	–
		25-way SUB-D 8-way mini-DIN	RS 485	5	**XBT Z9732** + *(1)*	–
	XBT GT2●●0...7340 XBT GK XBT GH (Junction box)	25-way SUB-D 8-way mini-DIN	RS 485	5	**XBT Z9732** + *(2)*	–
	HMI GTO	9-way SUB-D	RS 485	5	**XBT Z9732** + *(1)*	–

Siemens, Simatic PLCs

Description ***Driver used***	**Type of terminal**	**Type of connector** (fitted to cable, excluding adaptor)	**Physical link**	**Length**	**Reference**	**Weight** kg
Connection cable, ***PPI, S7 200***	XBT GT1●●●	RJ45/9-way SUB-D	RS 485 (COM1)	2.5	**XBT ZG9721**	–
	XBT GT2●●0...7340 XBT GK HMI GTO	RJ45/9-way SUB-D	RS 485 (COM2)			
Connection cables, ***MPI port, S7 300/400***	XBT GT2●●0...7340 XBT GK/GTW XBT GH (Junction box) HMI GTO	9-way SUB-D 9-way SUB-D	RS 232C (COM1)	3	**XBT ZG9292**	–
	XBT GT2●●0...7340 XBT GK HMI GTO	RJ45/flying leads other end	RS 485 *(7)* (COM2)	3	**VW3 A8 306 D30**	0.150
		RJ45/9-way SUB-D	RS 485 *(7)* (COM1 or COM2) *(8)*	2.5	**XBT ZG9721**	–

Customizable cables

Description ***Driver used***	**Terminal type**	**Type of connector** (fitted to cable, excluding adaptor)	**Physical link**	**Length** m	**Reference**	**Weight** kg
Universal cable, **RS 422**	XBT GT2●●0...7340 XBT GK XBT GH (Junction box)	9-way SUB-D/flying leads other end	RS 422 (COM1)	2.5	**XBT ZG9722**	0.210
Universal adaptor, **RS 422/485**	XBT GT2●●0...7340 XBT GK XBT GH (Junction box)	9-way SUB-D/Screw terminal	RS 422 (COM1)	–	**XBT ZG949** + *(5)*	–
		9-way SUB-D/Screw terminal	RS 485 (COM2)	–	**XBT ZG949** + *(6)*	–

---

(1) Adaptor ***XBT ZG939*** *to be used with cables with " + (1) " after the reference (see page 25).*

(2) Adaptor ***XBT ZG909*** *to be used with cables with " + (2) " after the reference (see page 25).*

(5) Cable to be created by user and used in conjunction with 9-way female/female SUB-D adaptor ***XBT ZGCOM1****.*

(6)Cable to be created by user and used in conjunction with isolation box ***XBT ZGI485*** *and 9-way male/female SUB-D adaptor* ***XBT ZGCOM2.***

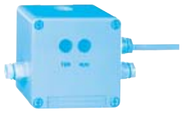
(7) Non-isolated RS 485 serial link, 12 Mbps (187.5 kbps with ***XBT GT11●0/2110****).*

(8) COM1 for HMI GTO1310, COM2 for the other terminals.

Operator dialogue terminals

Magelis™ Advanced Panels
Connection accessories for terminals
Magelis GT/GTO/GK/GH/GTW

TSX SCA 62



TSX P ACC 01

TSX SCA 64

LU9 GC3

VW3 A8 306 TF10

TWDXCAISO

Connection of Magelis terminals via serial links and Ethernet network

Type of bus/ network	Tap-off units	Connector (tap-off unit side)	Terminal type	Length m	Reference	Weight kg
Uni-Telway serial link	Subscriber socket TSX SCA 62	15-way female SUB-D	XBT GT1●●● (COM1)	3	**VW3 A8 306**	0.150
			XBT GT2●●0...7340 XBT GK (COM2) HMI GTO			
			XBT GT2●●0...7340 XBT GK (COM1) XBT GH (Junction box)	1.8	**XBT Z908** + *(2)*	0.240
	Connection box TSX P ACC01	8-way female mini-DIN	XBT GT1●●● (COM1)	2.5	**XBT Z9780**	0.180
			XBT GT2●●0...7340 XBT GK (COM2) HMI GTO			
			XBT GT2●●0...7340 XBT GK (COM1) XBT GH (Junction box)	2.5	**XBT Z9018**	–
Modbus serial link	Subscriber socket TSX SCA 64	15-way female SUB-D	XBT GT1●●● (COM1)	3	**VW3 A8 306**	0.150
			XBT GT2●●0...7340 XBT GK (COM2) HMI GTO			
			XBT GT2●●0...7340 XBT GK (COM1) XBT GH (Junction box)	1.8	**XBT Z908** + *(2)*	0.240
	8-port Modbus splitter box LU9 GC3 2-port tap-off junction TWDXCAISO TWDXCAT3RJ	RJ45	XBT GT1●●● (COM1)	3	**VW3 A8 306R30**	0.060
				2.5	**XBT Z9980**	–
			XBT GT2●●0...7340 XBT GK (COM1) XBT GH (Junction box)	2.5	**XBT Z9008**	–
	T-junction box	With integrated cable, RJ45 fitted	XBT GT1●●● (COM1)	1	**VW3 A8 306 TF10**	–
			XBT GT2●●0...7340 XBT GK (COM2) HMI GTO			
Ethernet TCP/IP network	Hubs 499 NEH/NOH Switches 499 NES, 499 NMS, 499 NSS and 499 NOS	RJ45	XBT GT●●30 / ●●40 XBT GK●●30 XBT GTW●●● XBT GH (Junction box) HMI GTO	2	**490 NTW 000 02**	–
				5	**490 NTW 000 05**	–
				12	**490 NTW 000 12**	–
				40	**490 NTW 000 40**	–
				80	**490 NTW 000 80**	–

(2) Adaptor **XBT ZG909** *to be used with cables with " + (2) "after the reference, see page 25.*

Operator dialogue terminals

Magelis™ Advanced Panels

Connection accessories for terminals
Magelis GT/GTO/GK/GH/GTW

Connection of Magelis terminals to fieldbuses

Type of bus/network	Connection components	Type of terminal	Reference	Weight kg
FIPWAY, FIPIO	USB gateway	XBT GT / GK *(1)* HMI GTO	**TSX CUSBFIP**	–
Modbus Plus	USB gateway	XBT GT / GK *(1)* HMI GTO	**XBT ZGUMP**	–
		XBT GTW	**TSX CUSBMBP**	–
Profibus DP	Card on expansion bus	XBT GT / GK *(1)*	**XBT ZGPDP**	–
Device Net	Card on expansion bus	XBT GT / GK *(1)*	**XBT ZGDVN**	–

ABL 7RM24025

Modular regulated switch mode power supplies *(2)*

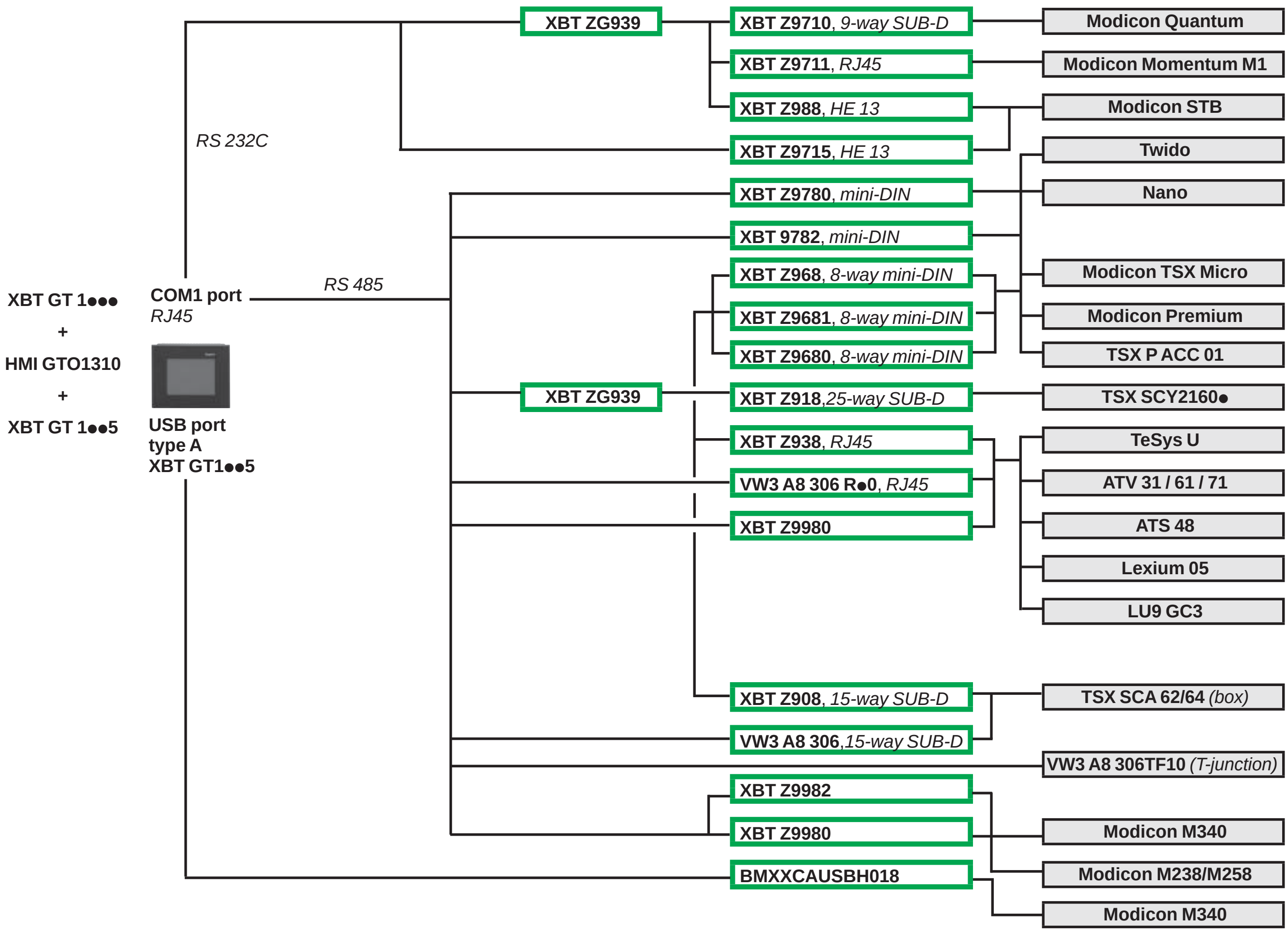
Input voltage/ Output voltage	Combination with terminals	Nominal power	Nominal current	Reference	Weight kg
100...240 / 24 V single-phase wide range line supply 47...63 Hz	XBT GT1100...6340 XBT GK / GH	30 W	1.2 A	**ABL 8MEM24012**	0.195
	XBT GT7340 / GTW	60 W	2.5 A	**ABL 7RM24025**	0.255

---

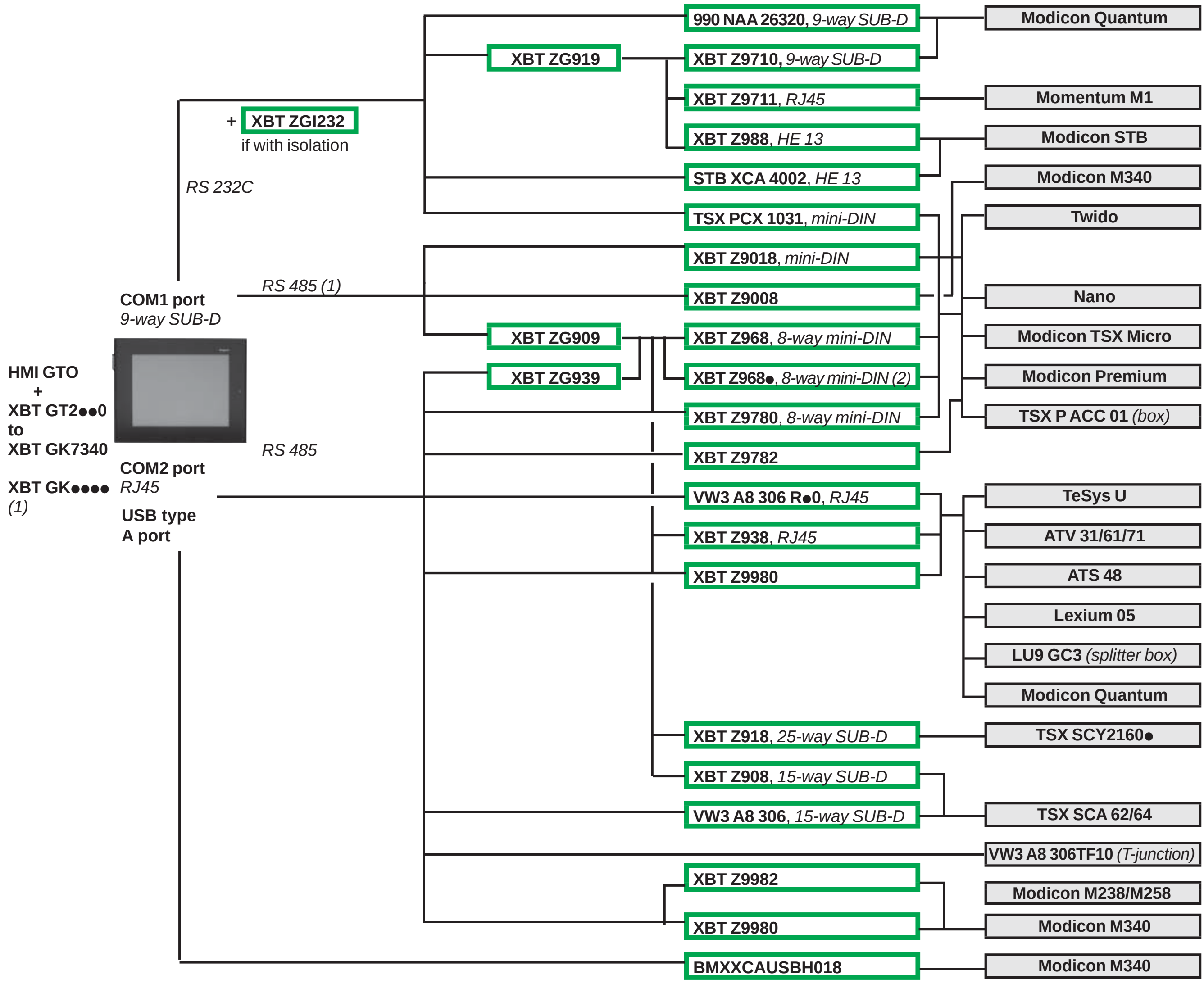
(1) Except XBT GT1●●●.

(2) Dimensions: H x W x D = 90 x 54 x 59 mm (ABL 8MEM24012) and 90 x 72 x 59 mm (ABL 7RM24025). For further information, please consult our website www.schneider-electric.com.

XBT GT11●5 terminals, HMI GTO1310 terminals and Schneider Electric products


XBT GT 1●●●
+
HMI GTO1310
+
XBT GT 1●●5
COM1 port
RJ45
USB port
type A
XBT GT1●●5
RS 232C
RS 485
XBT ZG939
XBT Z9710, 9-way SUB-D
XBT Z9711, RJ45
XBT Z988, HE 13
XBT Z9715, HE 13
XBT Z9780, mini-DIN
XBT 9782, mini-DIN
XBT Z968, 8-way mini-DIN
XBT Z9681, 8-way mini-DIN
XBT Z9680, 8-way mini-DIN
XBT ZG939
XBT Z918,25-way SUB-D
XBT Z938, RJ45
VW3 A8 306 R●0, RJ45
XBT Z9980
XBT Z908, 15-way SUB-D
VW3 A8 306,15-way SUB-D
XBT Z9982
XBT Z9980
BMXXCAUSBH018
Modicon Quantum
Modicon Momentum M1
Modicon STB
Twido
Nano
Modicon TSX Micro
Modicon Premium
TSX P ACC 01
TSX SCY2160●
TeSys U
ATV 31 / 61 / 71
ATS 48
Lexium 05
LU9 GC3
TSX SCA 62/64 (box)
VW3 A8 306TF10 (T-junction)
Modicon M340
Modicon M238/M258
Modicon M340

XBT GT2●●0/GT7340/GK●●●● terminals, HMI GTO terminals (except HMI GTO1310) and Schneider Electric products


HMI GTO
+
XBT GT2●●0
to
XBT GK7340
XBT GK●●●●
(1)
COM1 port
9-way SUB-D
COM2 port
RJ45
USB type
A port
+ XBT ZGI232
if with isolation
RS 232C
RS 485 (1)
RS 485
XBT ZG919
XBT ZG909
XBT ZG939
990 NAA 26320, 9-way SUB-D
XBT Z9710, 9-way SUB-D
XBT Z9711, RJ45
XBT Z988, HE 13
STB XCA 4002, HE 13
TSX PCX 1031, mini-DIN
XBT Z9018, mini-DIN
XBT Z9008
XBT Z968, 8-way mini-DIN
XBT Z968●, 8-way mini-DIN (2)
XBT Z9780, 8-way mini-DIN
XBT Z9782
VW3 A8 306 R●0, RJ45
XBT Z938, RJ45
XBT Z9980
XBT Z918, 25-way SUB-D
XBT Z908, 15-way SUB-D
VW3 A8 306, 15-way SUB-D
XBT Z9982
XBT Z9980
BMXXCAUSBH018
Modicon Quantum
Momentum M1
Modicon STB
Modicon M340
Twido
Nano
Modicon TSX Micro
Modicon Premium
TSX P ACC 01 (box)
TeSys U
ATV 31/61/71
ATS 48
Lexium 05
LU9 GC3 (splitter box)
Modicon Quantum
TSX SCY2160●
TSX SCA 62/64
VW3 A8 306TF10 (T-junction)
Modicon M238/M258
Modicon M340
Modicon M340

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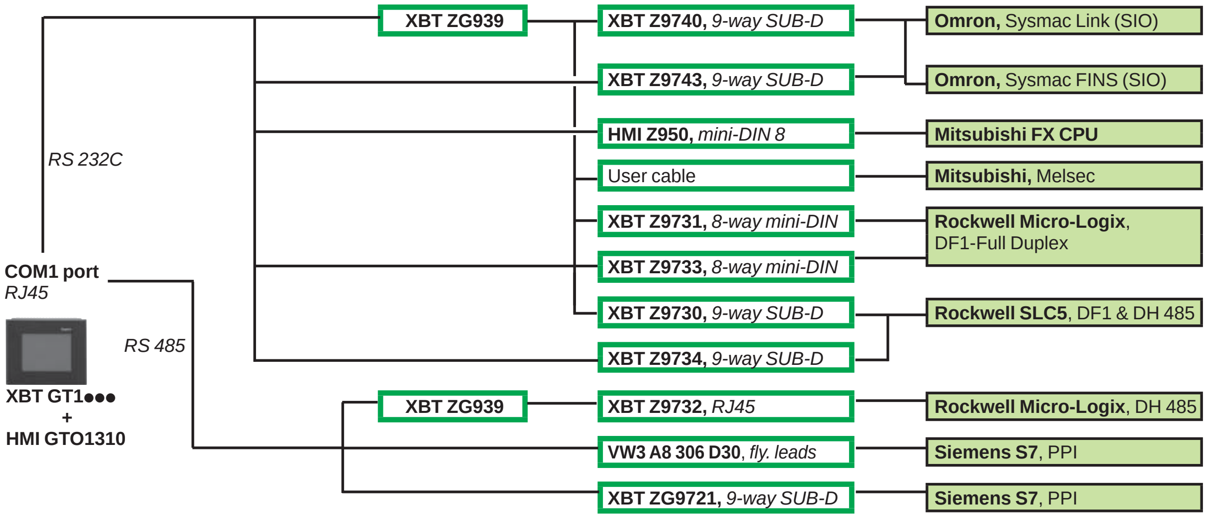
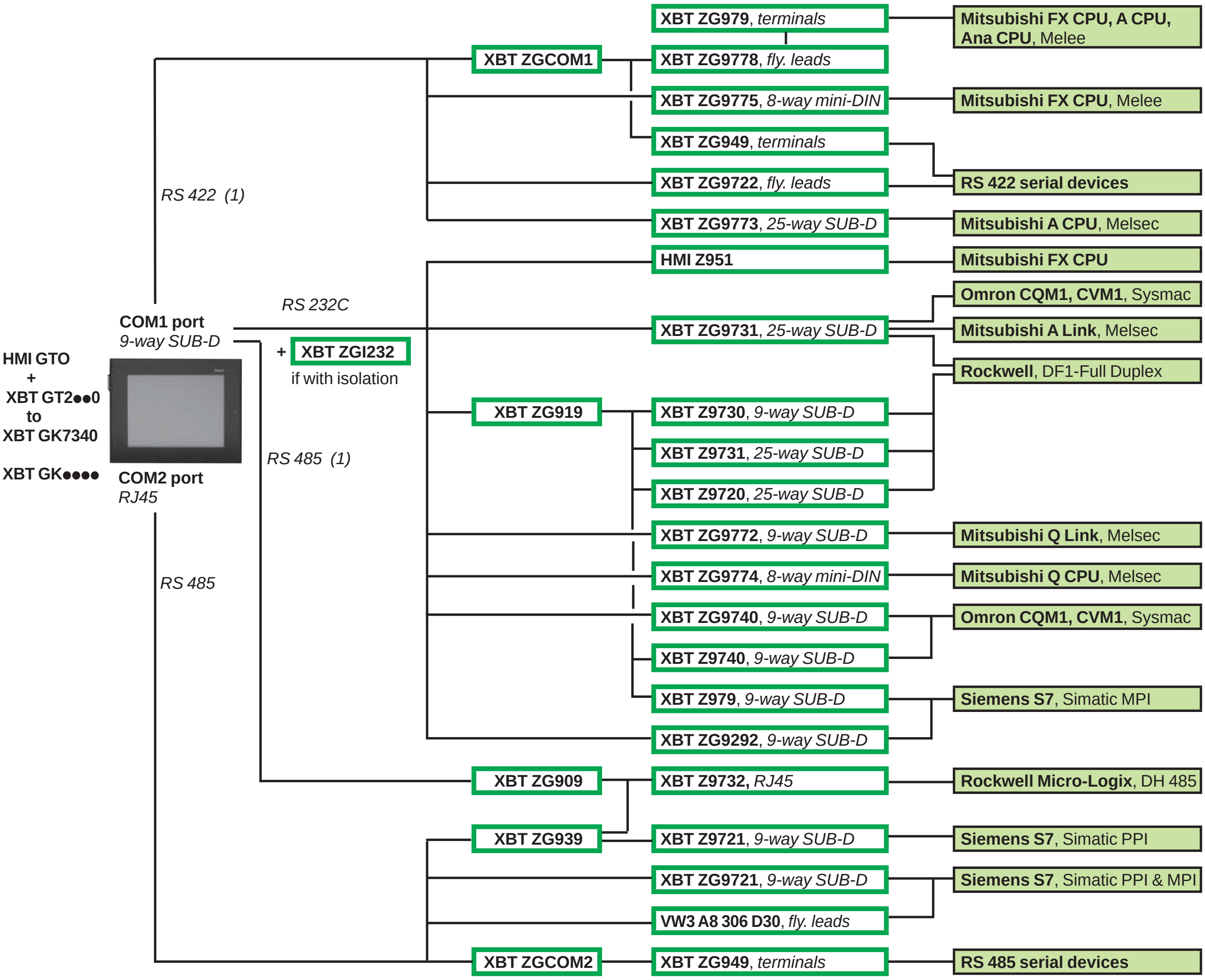
(1) RS485 not available for HMI GTO (COM1).
(2) ● defines the length:
- **0**, *2.5 m (elbowed connector)*
- **1**, *5 m*
- **6**, *16 m*
- **7**, *20 m*
- **8**, *25 m*

XBT GT11●5 terminals, HMI GTO1310 terminals and third party PLCs

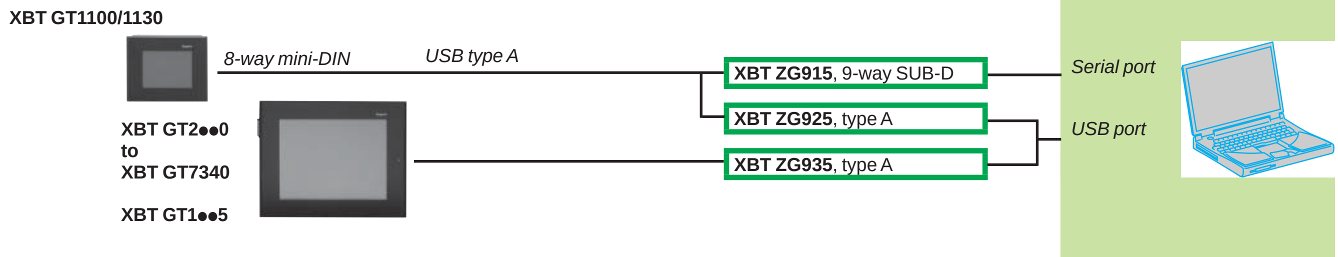

XBT ZG939
XBT Z9740, *9-way SUB-D*
Omron, Sysmac Link (SIO)
XBT Z9743, *9-way SUB-D*
Omron, Sysmac FINS (SIO)
RS 232C
HMI Z950, *mini-DIN 8*
Mitsubishi FX CPU
User cable
Mitsubishi, Melsec
XBT Z9731, *8-way mini-DIN*
Rockwell Micro-Logix, DF1-Full Duplex
COM1 port
RJ45
XBT Z9733, *8-way mini-DIN*
XBT Z9730, *9-way SUB-D*
Rockwell SLC5, DF1 & DH 485
RS 485
XBT Z9734, *9-way SUB-D*
XBT GT1●●●
+
HMI GTO1310
XBT ZG939
XBT Z9732, *RJ45*
Rockwell Micro-Logix, DH 485
VW3 A8 306 D30, *fly. leads*
Siemens S7, PPI
XBT ZG9721, *9-way SUB-D*
Siemens S7, PPI

XBT GT2●●0/GT7340/GK●●●● terminals, HMI GTO terminals (except HMI GTO1310) and third-party PLCs

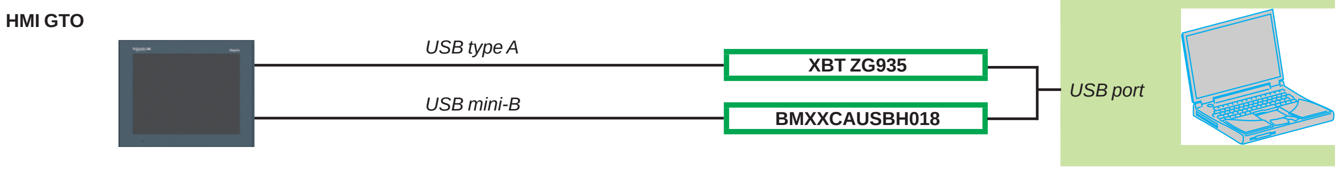

XBT ZG979, terminals
Mitsubishi FX CPU, A CPU, Ana CPU, Melee
XBT ZGCOM1
XBT ZG9778, fly. leads
XBT ZG9775, 8-way mini-DIN
Mitsubishi FX CPU, Melee
XBT ZG949, terminals
RS 422 (1)
XBT ZG9722, fly. leads
RS 422 serial devices
XBT ZG9773, 25-way SUB-D
Mitsubishi A CPU, Melsec
HMI Z951
Mitsubishi FX CPU
Omron CQM1, CVM1, Sysmac
RS 232C
COM1 port
9-way SUB-D
XBT ZG9731, 25-way SUB-D
Mitsubishi A Link, Melsec
HMI GTO
+
XBT GT2●●0
to
XBT GK7340
+ XBT ZGI232
if with isolation
Rockwell, DF1-Full Duplex
XBT ZG919
XBT Z9730, 9-way SUB-D
XBT Z9731, 25-way SUB-D
RS 485 (1)
XBT GK●●●●
COM2 port
RJ45
XBT Z9720, 25-way SUB-D
XBT ZG9772, 9-way SUB-D
Mitsubishi Q Link, Melsec
RS 485
XBT ZG9774, 8-way mini-DIN
Mitsubishi Q CPU, Melsec
XBT ZG9740, 9-way SUB-D
Omron CQM1, CVM1, Sysmac
XBT Z9740, 9-way SUB-D
XBT Z979, 9-way SUB-D
Siemens S7, Simatic MPI
XBT ZG9292, 9-way SUB-D
XBT ZG909
XBT Z9732, RJ45
Rockwell Micro-Logix, DH 485
XBT ZG939
XBT Z9721, 9-way SUB-D
Siemens S7, Simatic PPI
XBT ZG9721, 9-way SUB-D
Siemens S7, Simatic PPI & MPI
VW3 A8 306 D30, fly. leads
XBT ZGCOM2
XBT ZG949, terminals
RS 485 serial devices

(1) RS 422 and RS 425 not available on HMI GTO (COM1).

Application transfer from XBT GT terminals to PC


XBT GT1100/1130
8-way mini-DIN
USB type A
XBT ZG915, 9-way SUB-D
Serial port
XBT ZG925, type A
USB port
XBT GT2●●0
to
XBT GT7340
XBT ZG935, type A
XBT GT1●●5

Application transfer from HMI GTO terminals to PC


HMI GTO
USB type A
XBT ZG935
USB port
USB mini-B
BMXXCAUSBH018

Operator dialogue terminals

Magelis™ Advanced Panels

Equivalent product table Magelis XBT GT and HMI GTO

Equivalent product table between XBT GT terminals and HMI GTO terminals

Old range XBT GT	New range HMI GTO *Requires Vijeo Designer ⩾ V6.1*	Mechanical adaptor
XBT GT1100	**HMI GTO1300**	–
XBT GT1130	**HMI GTO1310**	–
XBT GT1105	**HMI GTO1300**	–
XBT GT1135	**HMI GTO1310**	–
XBT GT1335	**HMI GTO1310**	–
XBT GT2110	**HMI GTO2300**	–
XBT GT2120	**HMI GTO2310**	–
XBT GT2130	**HMI GTO2310**	–
XBT GT2220	**HMI GTO2310**	–
XBT GT2330	**HMI GTO2310**	–
XBT GT4230	**HMI GTO4310**	–
XBT GT4330	**HMI GTO4310**	–
XBT GT5230	**HMI GTO5310**	**XBT ZGC04**
XBT GT5330	**HMI GTO5310**	–
XBT GT6330	**HMI GTO6310**	–

Comments: when upgrading from the Magelis XBT range to the Magelis GTO Optimum range, the following parameters must be taken into account:
- connection to the Profibus DP and Device Net fieldbuses is not possible,
- a combined RS232/RS422 serial link is not possible with COM1,
- there is no “alarm” output or “loudspeaker” output in the current version of the Optimum range.

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ART. XXX

April 2012 - V1.0