

Human/Machine Interfaces

Magelis™ GTO Advanced Optimum panels

Catalog

November 2013



How to find the “Automation and Control” products

> Catalogs

Complete product ranges



> Essential guides

Selection of the top selling products



General contents

Overview and selection guide

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Magelis™ GTO
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Magelis™ GTO Overview

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Operator dialogue terminals

Architectures, connection to automation systems

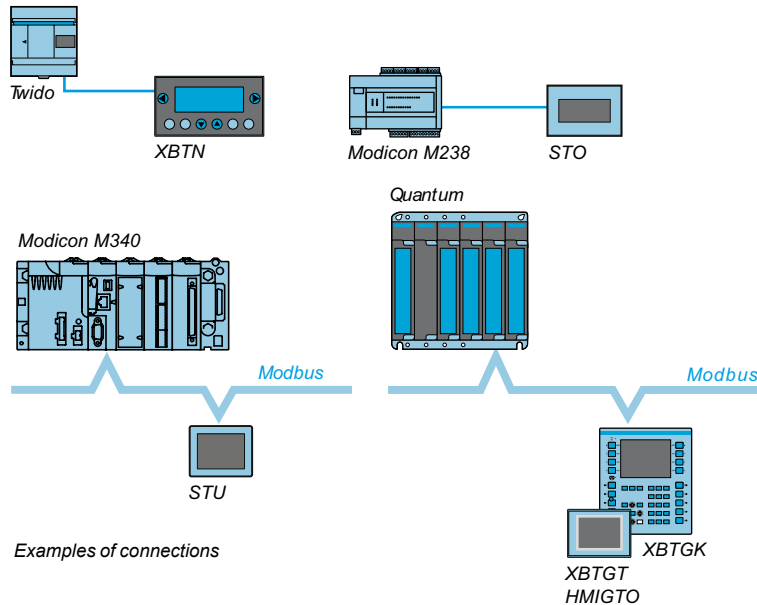
1

Presentation

Magelis™ operator dialogue terminals communicate with automation system equipment:

- Via serial link
- By means of integration into an Ethernet TCP/IP architecture

Communication via serial link



All Magelis terminals feature an integrated RS 232 C or RS 422/485 asynchronous serial link.

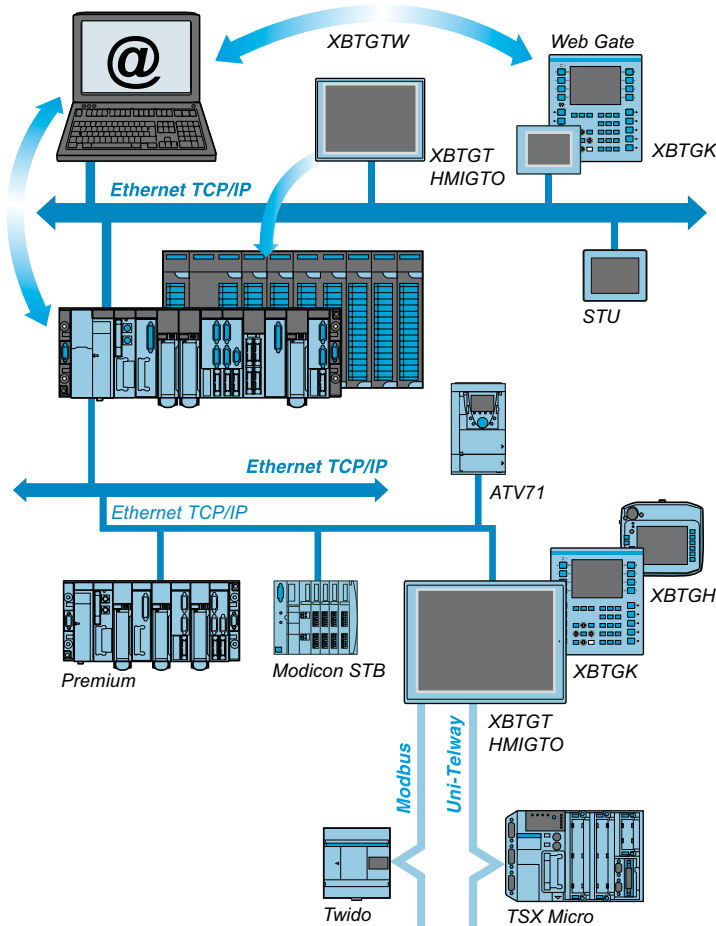
Use of the Uni-TE or Modbus protocol makes it easy to set up communication with Schneider Electric PLCs.

Third-party protocols enable connection to PLCs offered by major manufacturers on the market:

- DF1, DH485 for Allen-Bradley PLCs
- SysmacWay for Omron PLCs
- MPI/PPI for Siemens Simatic S7 PLCs
- Mitsubishi Melsec FX PLC

Presentation (continued)

Integration into an architecture with Ethernet TCP/IP network



Automation platforms provide transparent routing of Uni-TE or Modbus messages from a TCP/IP network to a Uni-TE or Modbus network and vice versa.

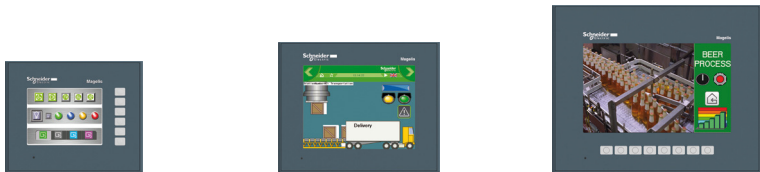
The various services offered for the terminals are:

- **Modbus TCP/IP messaging** (for XBTGK, XBTGH, XBTGTW, XBTGT and HMIGTO, access with Ethernet TCP/IP Modbus protocol)
- **Browse function** with XBTGTW or standard PC
- **Web Gate function**: Diagnostics to remotely control the application
- **FTP server**: Transfer of data files with the terminal
- **Data Sharing function**: Data exchange on Ethernet between 8 terminals (maximum)
- **E-mail function**

Operator dialogue terminals

Magelis™ GTO Optimum Advanced panels

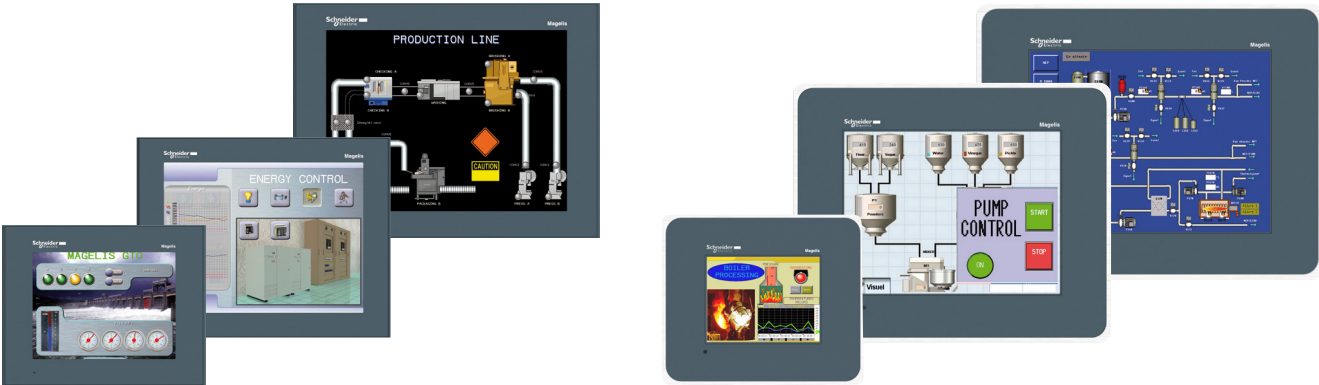
Applications	Display of text messages, graphic objects and synoptic views Control and configuration of data
Type of terminal	Optimum Advanced panels, touch screen
Degree of protection (according to IEC 60529)	IP 65 (IP 67 with addition of a cover)



Display	Type	Color TFT LCD, backlit 320 x 240 pixels (QVGA)		Color 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	–	8 function keys
	Dynamic function keys	(static or dynamic)	–	(static or dynamic)
	Service keys	–	–	–
	Alphanumeric keys	–	–	–
Memory capacity	Applications	64/96 MB Flash EPROM (1)		96 MB Flash EPROM
	Expansion	–	By 4 GB SD card (except HMIGTO2300)	
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 HMIGTO1310: 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) (5)		
Operating system		Magelis (333 MHz RISC CPU)		
Type of terminal		HMIGTO1300 HMIGTO1310	HMIGTO2300 HMIGTO2310	HMIGTO3510
Page		2/11		

(1) Depending on model.
(2) Uni-TE version V2 for Twido controller and TSX Micro/Premium platform.
(3) Except HMIGTO1300 and GTO2300 (Modbus Plus and Fipway via USB gateway only).
(4) Except HMIGTO1310 (USB port for parallel printer only).
(5) For more information, please refer to our website www.schneider-electric.com.

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



Color TFT LCD, backlit 640 x 480 pixels (VGA)	Color TFT LCD, backlit 640 x 480 pixels (VGA)	Color TFT LCD, backlit 800 x 600 pixels (SVGA)	Color TFT LCD, backlit 320 x 240 pixels (QVGA)	Color TFT LCD, backlit 640 x 480 pixels (VGA)	Color 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) (5)					
Magelis (333 MHz RISC CPU)					
HMIGTO4310	HMIGTO5310	HMIGTO6310	HMIGTO2315	HMIGTO5315	HMIGTO6315
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Magelis™ GTO

Advanced Optimum panels

Magelis™ GTO Advanced Optimum panels

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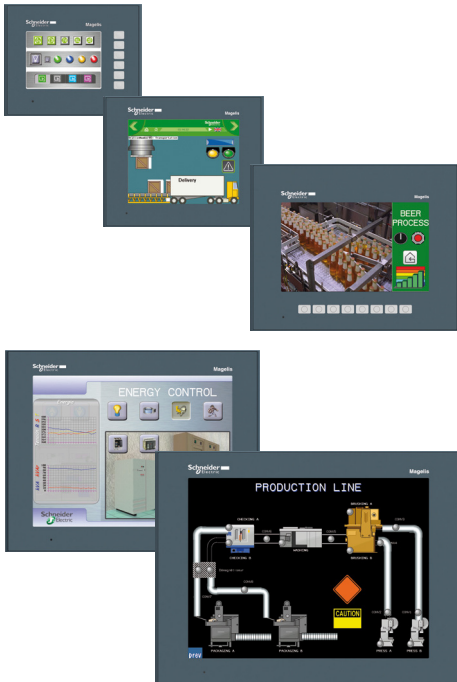
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Magelis color touch screen terminals HMIGTO●●●0
in 5 sizes from 3.5" to 12.1" (standard version)



Magelis color touch screen terminals HMIGTO●●●5
in 3 sizes from 5.7" to 12.1" ("Stainless Steel" version)

Presentation

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

- A range of 8 color 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 color 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.

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 2/12)
- 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.



Display of a video sequence

Configuration

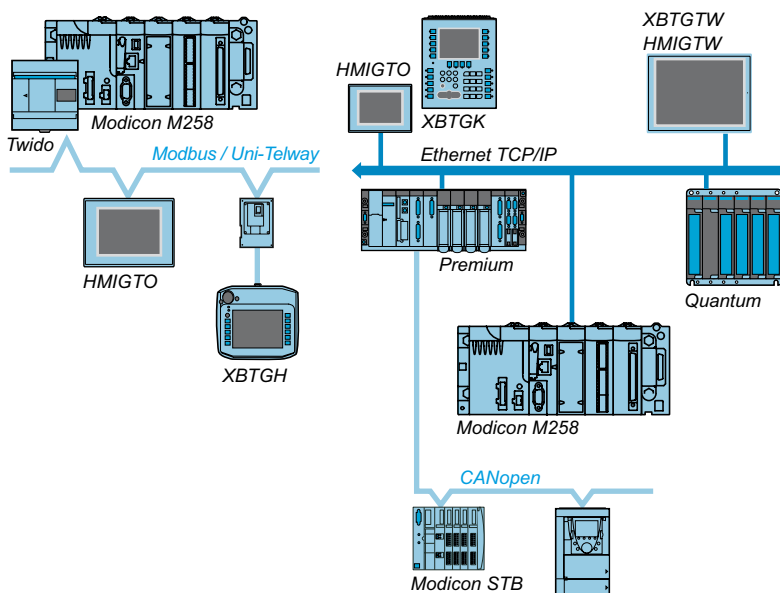
Like all the other Magelis Advanced panels, Magelis GTO Advanced Optimum panels can be configured using Vijeo Designer software in a Windows XP and Windows 7 environment.

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. For more information on Vijeo Designer, please refer to our website www.schneider-electric.com.

2

Communication



Advanced Optimum panels communicate with PLCs via one of 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

USB accessories for HMI terminals

The Magelis™ USB accessories are designed to expand the selection range of user applications by offering value-added/differentiated HMI solutions. These innovative USB accessories can be easily installed and operated with HMI terminals.

The Magelis USB accessories supported by Magelis GTO include:

- Harmony XVGU USB tower light
- Harmony XB5S biometric USB switch
- Magelis HMIZ illuminated USB switch

For more information on HMI USB accessories, please refer to our website www.schneider-electric.com.

Functions

Advanced Optimum panels offer the following functions:

- Display of animated synoptic views with 8 types of animation (pressing the touch panel, color 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

MachineStruxure™



SoMachine software platform



Vijeo Designer configuration software

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.

Advanced Optimum 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.

PlantStruxure™

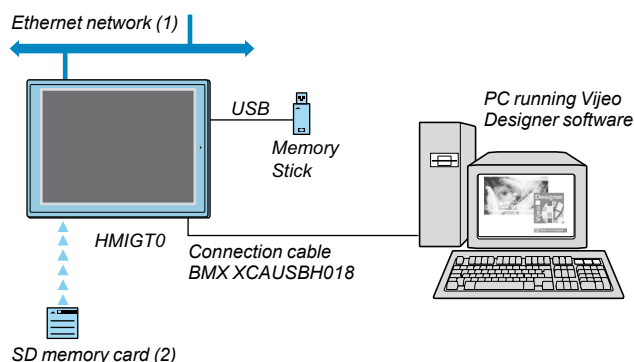
(1) For more information on the "MachineStruxure™" concept, please refer to "Automation solutions for industrial machines" catalog.

(2) For more information on the "PlantStruxure™" concept, please refer to our website www.schneider-electric.com/Solutions/Process and Machines Management.

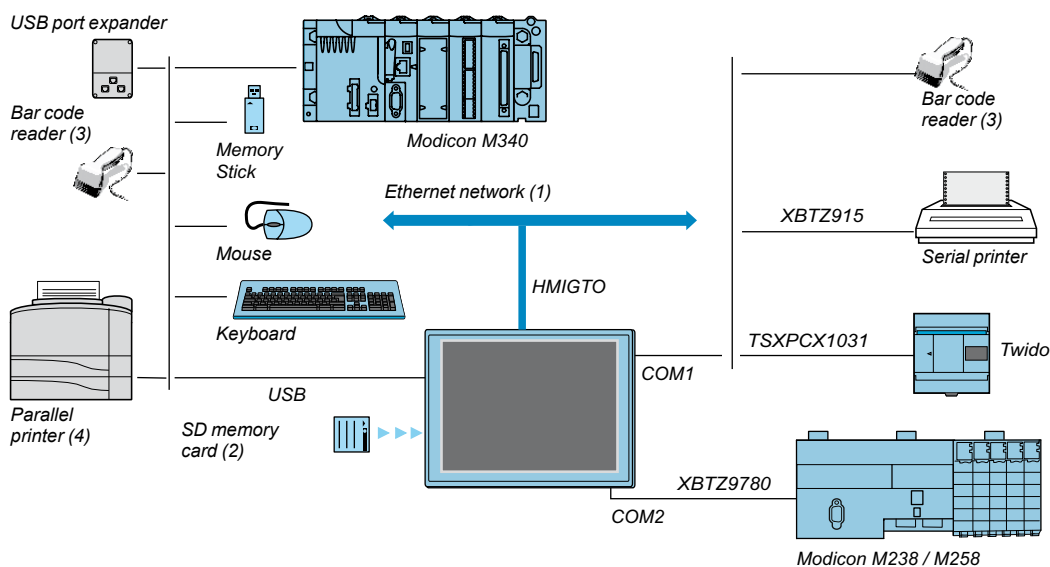
Panel operating modes

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

Edit mode



Operating mode



(1) With HMIGTO●●1●.

(2) Memory card, except HMIGTO 1300/1310/2300.

(3) Validated with DataLogic Gryphon bar code reader.

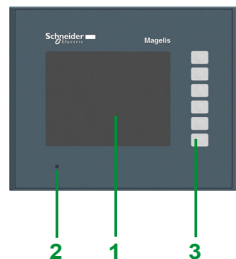
(4) Validated with Hewlett Packard printer via USB/PIO converter.

Operator dialogue terminals

Magelis™ GTO Advanced Optimum panels

Panels with 3.5" touch screen

Common front



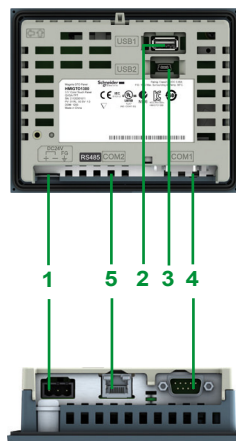
Description

Magelis HMIGTO 1300/1310 Advanced panels

HMIGTO1300 and HMIGTO1310 panels have the following features on the front:

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

Rear HMIGTO1300

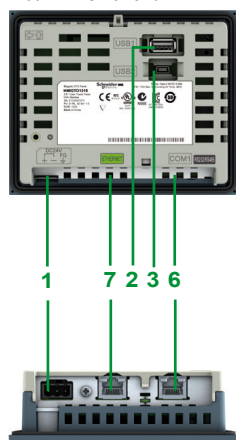


Underside HMIGTO1300

The HMIGTO1300 panel has 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 to PLCs (COM2).

Rear HMIGTO1310



Underside HMIGTO1310

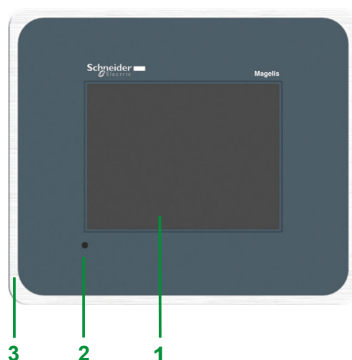
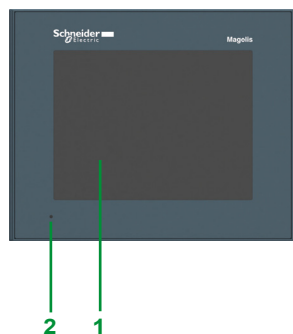
The HMIGTO1310 panel has the following features on the rear and underside:

- 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.
- 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.

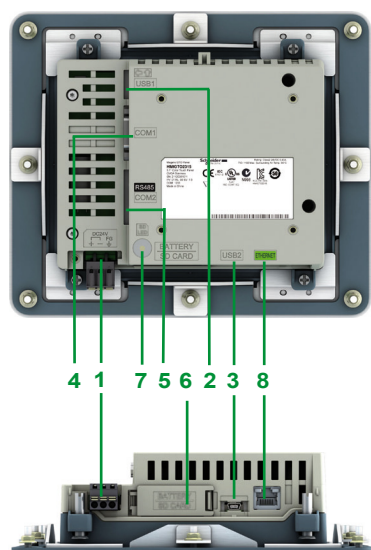
Operator dialogue terminals

Magelis™ GTO Advanced Optimum panels
Panels with 5.7" touch screen, standard and
Stainless Steel version

Front



Rear HMIGTO2315



Underside HMIGTO2315

Description

Magelis Advanced panels HMIGTO2300/2310 (standard version) and HMIGTO2315 (Stainless Steel version)

HMIGTO2300 and HMIGTO2310 panels have the following features on the front:

- 1 A touch screen for displaying synoptic views (5.7" color TFT).
- 2 A multicolor indicator (green, orange and red) showing the panel's operating mode.

The HMIGTO2315 panel has the following features on the front:

- 1 A touch screen for displaying synoptic views (5.7" color TFT).
- 2 A multicolor 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.

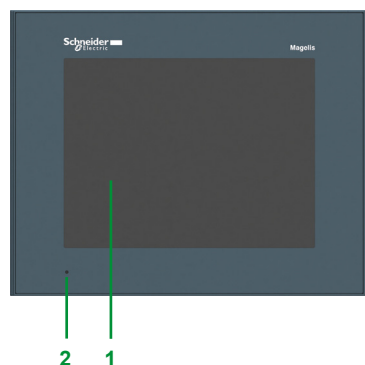
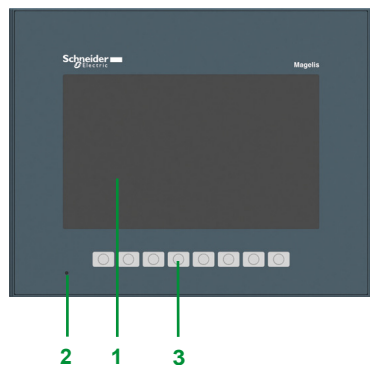
All 3 of these panels have the following features on the rear and underside:

- 1 A removable screw terminal block for 24 V $\square$ 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).

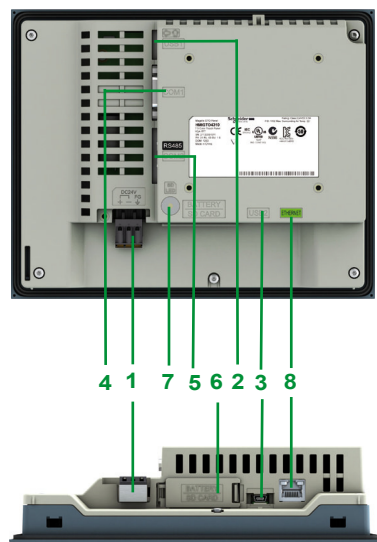
On HMIGTO2310 and HMIGTO2315 only:

- 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.

Front



Rear



Underside

Description

Magelis Advanced panels HMIGTO3510/4310

The HMIGTO3510 panel has the following features on the front:

- 1 A touch screen for displaying synoptic views (7.0" Wide color TFT)
- 2 A multicolor 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 HMIGTO4310 panel has the following features on the front:

- 1 A touch screen for displaying synoptic views (7.5" color TFT)
- 2 A multicolor indicator (green, orange and red) showing the panel's operating mode.

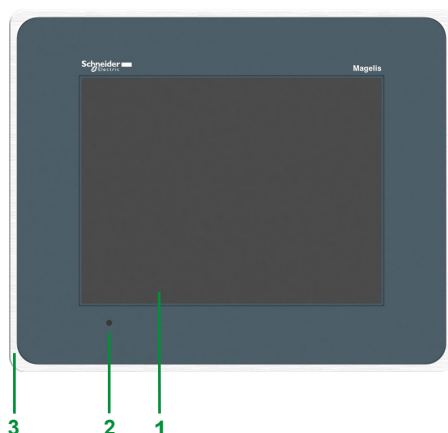
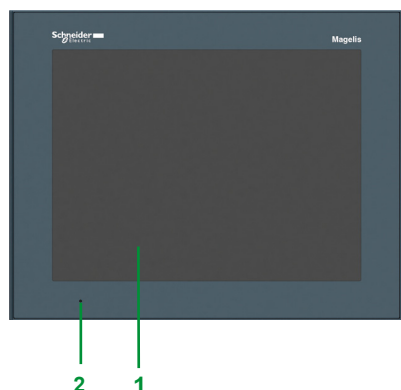
Both terminals have the following features on the rear and underside:

- 1 A removable screw terminal block for 24 V $\overline{\text{---}}$ 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.

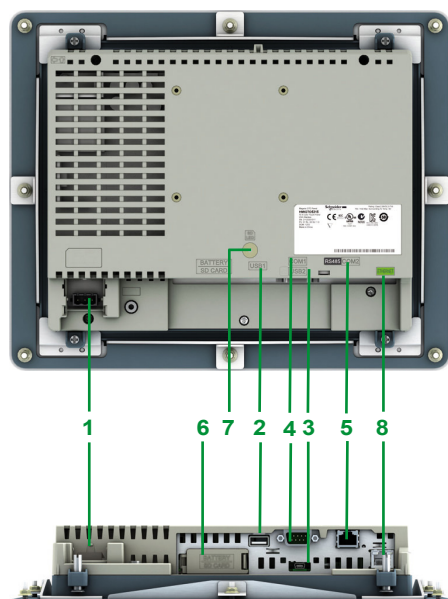
Operator dialogue terminals

Magelis™ GTO Advanced Optimum panels
Panels with 10.4" touch screen, standard and
Stainless Steel version

Front



Rear



Underside

Description

Magelis Advanced panels HMIGTO5310 (standard version) and HMIGTO5315 (Stainless Steel version)

The HMIGTO5310 panel has the following features on the front:

- 1 A touch screen for displaying synoptic views (10.4" color TFT)
- 2 A multicolor indicator (green, orange and red) showing the panel's operating mode.

The HMIGTO5315 panel has the following features on the front:

- 1 A touch screen for displaying synoptic views (10.4" color TFT)
- 2 A multicolor 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.

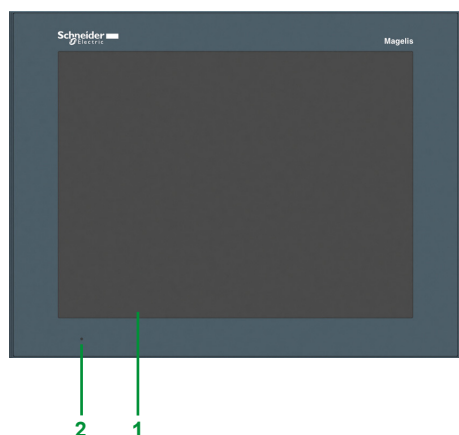
Both terminals have the following features on the rear and underside:

- 1 A removable screw terminal block for the 24 V $\square$ 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 Advanced Optimum panels
Panels with 12.1" touch screen, standard and
Stainless Steel version

Front



Description

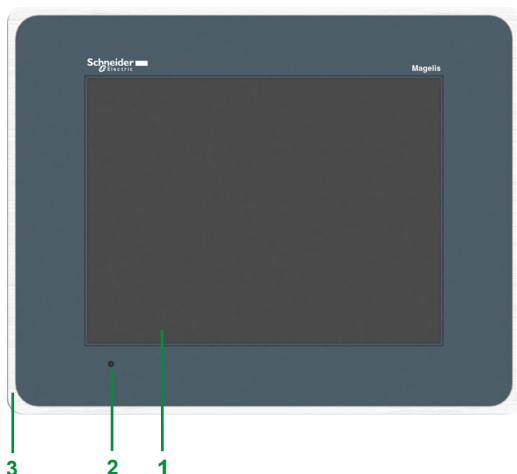
Magelis Advanced panels HMIGTO6310 (standard version) and HMIGTO6315 (Stainless Steel version)

The HMIGTO6310 panel has the following features on the front:

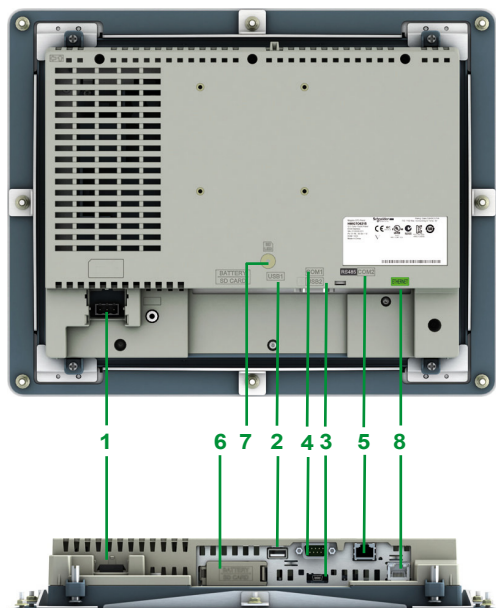
- 1 A touch screen for displaying synoptic views (12.1" color TFT).
- 2 A multicolor indicator (green, orange and red) showing the panel's operating mode.

The HMIGTO6315 panel has the following features on the front:

- 1 A touch screen for displaying synoptic views (12.1" color TFT).
- 2 A multicolor 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



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

- 1 A removable screw terminal block for the 24 V $\overline{\text{---}}$ 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.

Underside

Operator dialogue terminals

Magelis™ GTO Advanced Optimum panels

Panels with 3.5" to 12.1" touch screen



Optimum 24 V DC panels with color 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	–	HMIGTO1300	0.400
	2 USB	96 MB	No	1 COM 1	1	HMIGTO1310	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	–	HMIGTO2300	0.800
	2 USB	96 MB	Yes (2)	1 COM 1 1 COM 2	1	HMIGTO2310	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	HMIGTO3510	1.200
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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	HMIGTO4310	1.200
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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	HMIGTO5310	2.000
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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	HMIGTO6310	2.500
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Optimum 24 V DC terminals with color touch screen, Stainless Steel version ^{(1) (3)}

Data entry method	Number of ports	Application memory capacity	Memory expansion by SD card	Serial link	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	HMIGTO2315	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	HMIGTO5315	2.500
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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	HMIGTO6315	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, refer to our website www.schneider-electric.com.

(2) Memory expansion possible with 4 GB SD card **HMI ZSD4G**, see accessories page 2/13.

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

Separate components

Description	Characteristics	Compatible with terminals	Reference	Weight kg
SD memory card	4 GB, blank	HMIGTO	HMIZSD4G	—
Protective sheets (5 peel-off sheets)	—	HMIGTO1300/1310	HMIZG60	—
		HMIGTO2300/2310/2315	HMIZG62	—
		HMIGTO3510	HMIZG63	—
		HMIGTO4310	HMIZG64	—
		HMIGTO5310/5315	HMIZG65	—
		HMIGTO6310/6315	HMIZG66	—
Plastic covers for harsh environments (IP 67 protection)	—	HMIGTO1300/1310	HMIZECOV1	—
		HMIGTO2300/2310	HMIZECOV2	—
		HMIGTO3510/4310	HMIZECOV4	—
		HMIGTO5310/5315	HMIZECOV5	—
		HMIGTO6310 /6315	HMIZECOV6	—

Description	Description	Length m.	Reference	Weight kg
Mechanical adaptors for substitution of terminals of the Magelis range	From XBTGT5230 to HMIGTO5310	—	XBTZGCO4	—



XBTZGCO4

Remote USB port for terminals HMIGTO	Enables the USB mini-B port to be located remotely on the rear of the XBTor HMIGTO terminal on a panel or enclosure door (Ø 21 mm fixing device)	1	XBTZGUSBB	—
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XBTZGUSBB

Remote USB port for HMIGTO panel	Enables the USB mini-B port to be located remotely on the rear of the HMIGTO panel, on a panel or enclosure door (Ø 21 mm fixing device)	1	HMIZSUSBB	—
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Spare parts

Description	For use with terminals	Reference	Weight kg
Seals	HMIGTO1300/1310	HMIZG51	—
	HMIGTO2300/2310	HMIZG52	—
	HMIGTO2315	HMIZG522	—
	HMIGTO3510/4310	HMIZG54	—
	HMIGTO5310	HMIZG55	—
	HMIGTO5315	HMIZG552	—
	HMIGTO6310	HMIZG56	—
	HMIGTO6315	HMIZG562	—
USB fastenings Sold in lots of 5	HMIGTO (USB type A)	HMIZGCLP1	—
	HMIGTO (USB type mini-B)	HMIZSCLP3	—
Fixing kit	4 clips and screws (max. tightening torque: 0.5 Nm), supplied with all HMIGTO●●●0 terminals	HMIZGFIX	0.030
	8 nuts and 4 L-shaped brackets, supplied with all HMIGTO●●●5 terminals	HMIZGFIX2	0.030
Power supply connector Sold in lots of 5	HMIGTO (direct connection)	HMIZGPWS	0.030
	HMIGTO (right angle connection)	HMIZGPWS2	0.030
Sheets of customizable labels for HMIGTO terminals	HMIGTO1300/1310	HMIZLYGO1	—
	HMIGTO3510	HMIZLYGO3	—
Battery	HMIGTO except HMIGTO1300/1310/2300	HMIZGBAT	—

Cables for application transfer - Terminal to PC

Type of terminal (terminal end connector)	Connector (PC end)	Type	Length m	Reference (1)	Weight kg
HMIGTO	USB	USB	1.80	BMXXCAUSBH018	—

Printer connection cables

Type of printer (2)	Connector (printer end)	Type	Length m	Reference	Weight kg
HMIGTO panels (except HMIGTO1310)	SUB-D female 25-way	RS 232C (COM1)	2.5	XBTZ915	0.200
Serial printer for HMIGTO panels	USB	RS 232C (COM1)	1.80	HMIZURS	—

Adaptors and isolation boxes for HMIGTO panels

These 3 adaptors are used with the connection cables depending on the application concerned.
For example, the XBTZ968 cable is used with the XBTZG909 adaptor, to connect a Twido controller (via its terminal port) to an XBTGT2●●0 terminal (via its COM1 port).

Description	Type of connector (automation product end)	Physical link (XBTor HMIGTO terminal end)	Length m	Reference	Weight kg
Adaptor for HMIGTO	25-way SUB-D connector	RJ 45 connector	0.2	XBTZG939	—
Adaptors for HMIGTO (COM1 port)	25-way SUB-D connector	9-way SUB-D connector, RS 232C	0.2	XBTZG919	—

Description	For use with	Link to isolate	Reference	Weight kg
Serial link isolation units for HMIGTO	- Isolated link on 9-way SUB-D connector (3) - Box power supply via USB port of terminal. Incorporates a USB port expander.	RS 232C/RS 485 (COM1)	XBTZGI232	—
		RS 485 (COM2)	XBTZGI485	—



XBTZGI485

(1) Cable included (depending on model) with Vijeo Designer software packages (refer to HMI Software catalog).

(2) Parallel printer (see page 2/5).

(3) Male connector with XBTZGI232, female connector with XBTZGI485.



TSXPCX1031

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	HMIGTO	RS 485	COM1	2.5	XBTZ9780	0.180
					COM2	10	XBTZ9782	–
			HMIGTO	RS 232	COM1	2.5	TSXPCX1031	–
Modicon M340 Modicon M238 Modicon M258	RJ45	Modbus	HMIGTO	RS 485	COM1	2.5	XBTZ9980	0.230
					COM2	10	XBTZ9982	–
	USB Mini-B	Terminal port	HMIGTO	USB	USB type A	1.8	BMXXCAUSBH018	0.230
						4.5	BMXXCAUSBH045	–
Modicon Quantum	9-way male SUB-D	Modbus	HMIGTO	RS 232C	COM1	2.5	XBTZ9710 + (1)	0.210
						3.7	990NAA26320	0.290
Modicon STB	HE13 (NIM, network interface module)	Modbus	HMIGTO	RS 232C	COM1	2	STBXCA4002	0.210
						2.5	XBTZ988 + (1)	0.220
Modicon Momentum M1	RJ45 (port 1 on Momentum M1)	Modbus	HMIGTO	RS 232C	COM1	2.5	XBTZ9711 + (1)	0.210
TeSys U, T starters ATV 312/61/71 variable speed drives ATS 48 starters Lexium 05 Preventa XPSMC	RJ45	Modbus	HMIGTO	RS 485	COM1	3	VW3A8306R30	0.060
					COM2	2.5	XBTZ9980	–
						10	XBTZ9982	–

(1) Adaptor **XBTZG919** to be used with cables with " + (1) " after the reference.



XBTZG9772



XBTZG9731



XBTZG9731

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

Mitsubishi, Melsec PLCs

Description Driver used	Type of terminal	Type of connector (fitted to cable, excluding adaptor)	Physical link (COM1)	Length m	Reference	Weight kg
Connection cable, Q Link (SIO)	HMIGTO	9-way SUB-D 9-way SUB-D	RS 232C	5	XBTZG9772	—
Connection cable, Q CPU (SIO)	HMIGTO	9-way SUB-D mini-DIN	RS 232C	5	XBTZG9774	—
Connection cable, A Link (SIO)	HMIGTO	9-way SUB-D 25-way SUB-D	RS 232C	5	XBTZG9731	—
Connection cable, FX (CPU)	HMIGTO	9-way SUB-D mini-DIN	RS 232/ RS 422	5	HMIZ951 ▲	—

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)	HMIGTO	9-way SUB-D 9-way SUB-D	RS 232C	5	XBTZG9740	—
		9-way SUB-D 25-way SUB-D	RS 232C	5	XBTZG9731	—
Connecting cables FINS (SIO)	HMIGTO	9-way SUB-D 9-way SUB-D	RS 232C	5	XBTZG9740	—

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	HMIGTO	9-way SUB-D 25-way SUB-D	RS 232C	5	XBTZG9731	—
Connection cables, DH485	HMIGTO	9-way SUB-D	RS 485	5	XBTZ9732 + (1)	—

Siemens, Simatic PLCs

Description Driver used	Type of terminal	Type of connector (fitted to cable, excluding adaptor)	Physical link	Length m	Reference	Weight kg
Connection cable, PPI, S7 200	HMIGTO	RJ45/9-way SUB-D	RS 485 (COM2)	2.5	XBTZG9721	—
Connection cables, MPI port, S7 300/400	HMIGTO	9-way SUB-D 9-way SUB-D	RS 232C (COM1)	3	XBTZG9292	—
	HMIGTO	RJ45/flying leads other end	RS 485 (2) (COM2)	3	VW3A8306D30	0.150
	HMIGTO	RJ45/9-way SUB-D	RS 485 (2) (COM1)	2.5	XBTZG9721	—

(1) Adaptor **XBTZG939** to be used with cables with " + (1) " after the reference (see page 2/15).

(2) Non-isolated RS 485 serial link, 12 Mbps

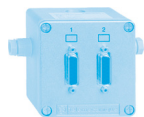
▲ Available: 3rd quarter 2012

Presentation:
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Description:
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Schemes:
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Substitution:
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TSXSCA62



TSXPACC01



TSXSCA64



VW3A8306TF10

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 TSXSCA62	15-way female SUB-D	HMIGTO	3	VW3A8306	0.150
	Connection box TSXPACC01	8-way female mini-DIN	HMIGTO	2.5	XBTZ9780	0.180
Modbus serial link	Subscriber socket TSXSCA64	15-way female SUB-D	HMIGTO	3	VW3A8306	0.150
	T-junction box	With integrated cable, RJ45 fitted	HMIGTO	1	VW3A8306TF10	—
Ethernet TCP/IP network	Hubs 499 NEH/NOH Switches 499 NES, 499 NMS, 499 NSS and 499 NOS	RJ45	HMIGTO	2	490NTW00002	—
				5	490NTW00005	—
				12	490NTW00012	—
				40	490NTW00040	—
				80	490NTW00080	—

Connection of Magelis terminals to fieldbuses

Type of bus/network	Connection components	Type of terminal	Reference	Weight kg
FIPWAY, FIPIO	USB gateway	HMIGTO	TSXCUSBFIP	—
Modbus Plus	USB gateway	HMIGTO	XBTZGUMP	—

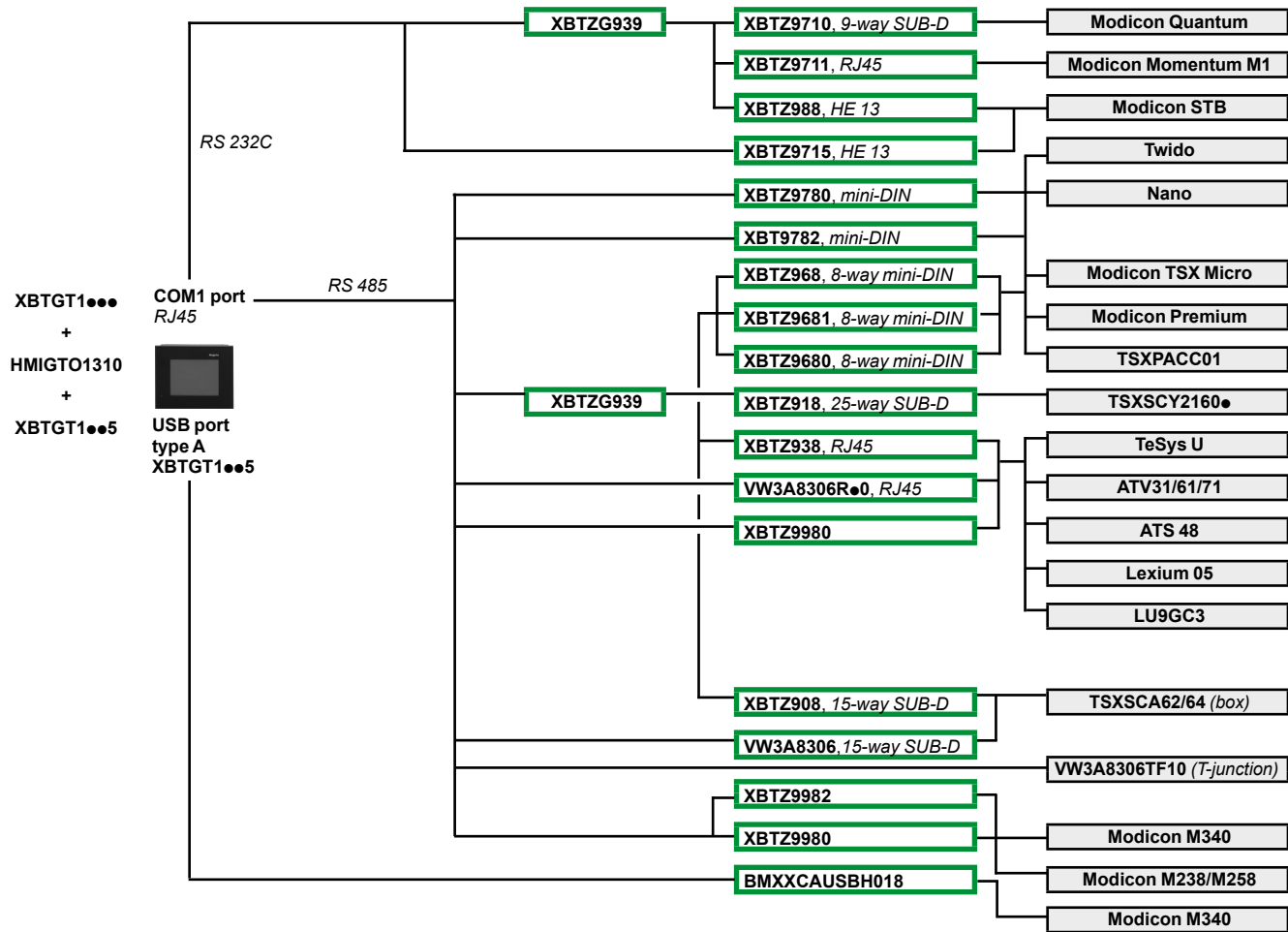
Equivalent product table between XBTGT terminals and HMIGTO terminals

Old range XBTGT	New range HMIGTO <i>Requires Vijeo Designer ≥ V6.1</i>	Mechanical adaptor
XBTGT1100	HMIGTO1300	–
XBTGT1130	HMIGTO1310	–
XBTGT1105	HMIGTO1300	–
XBTGT1135	HMIGTO1310	–
XBTGT1335	HMIGTO1310	–
XBTGT2110	HMIGTO2300	–
XBTGT2120	HMIGTO2310	–
XBTGT2130	HMIGTO2310	–
XBTGT2220	HMIGTO2310	–
XBTGT2330	HMIGTO2310	–
XBTGT4230	HMIGTO4310	–
XBTGT4330	HMIGTO4310	–
XBTGT5230	HMIGTO5310	XBTZGC04
XBTGT5330	HMIGTO5310	–
XBTGT6330	HMIGTO6310	–

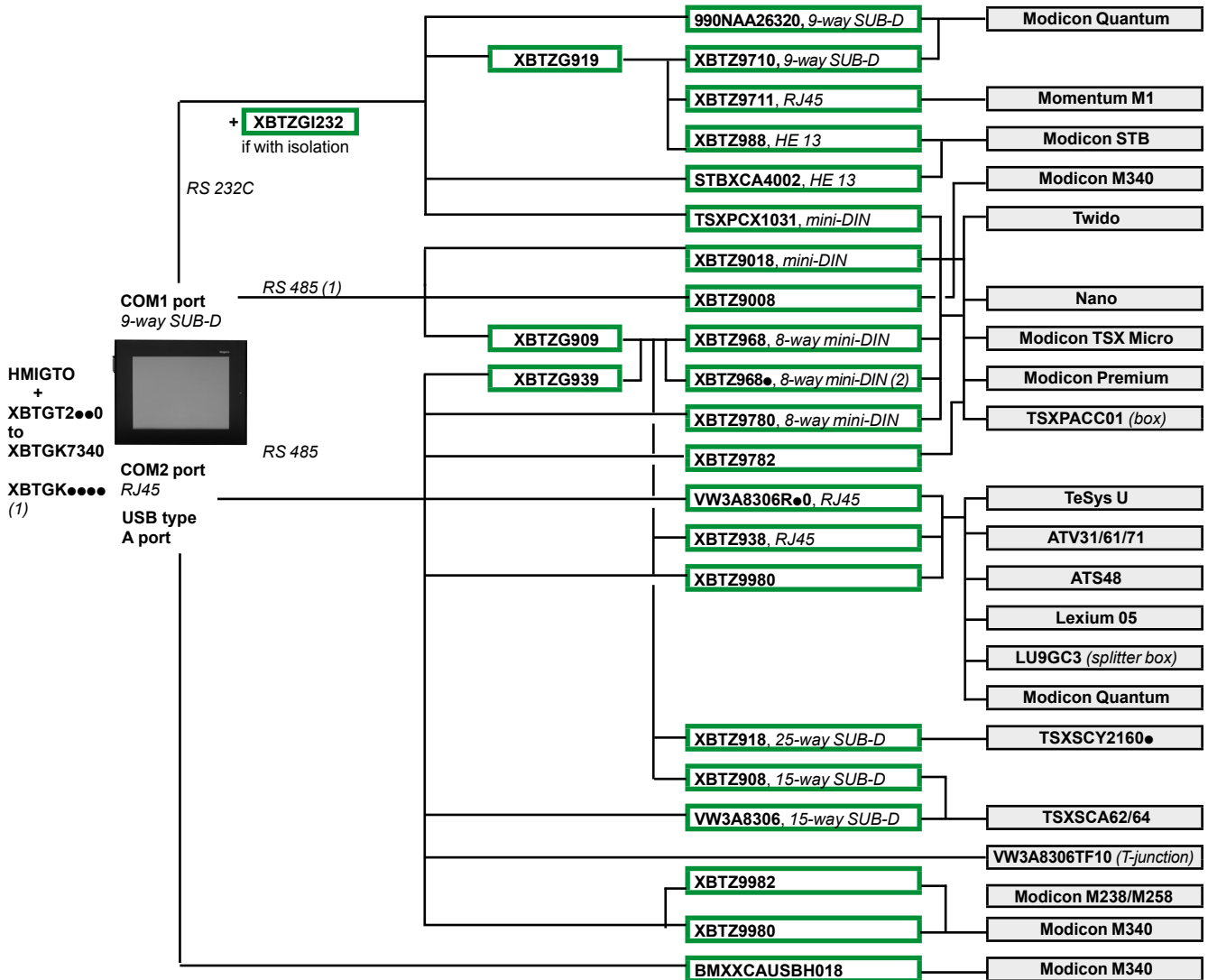
Comments: when upgrading from the Magelis XBTrange to the Magelis GTO Optimum range, the following parameters must be taken into account:

- 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.

XBTGT11•5 terminals, HMIGTO1310 terminals and Schneider Electric products



XBTGT2●●0/GT7340/GK●●●● terminals, HMIGTO terminals (except HMIGTO1310) and Schneider Electric products



(1) RS485 not available for HMIGTO (COM1).

(2) ● defines the length:

- 0, 2.5 m (elbowed connector)

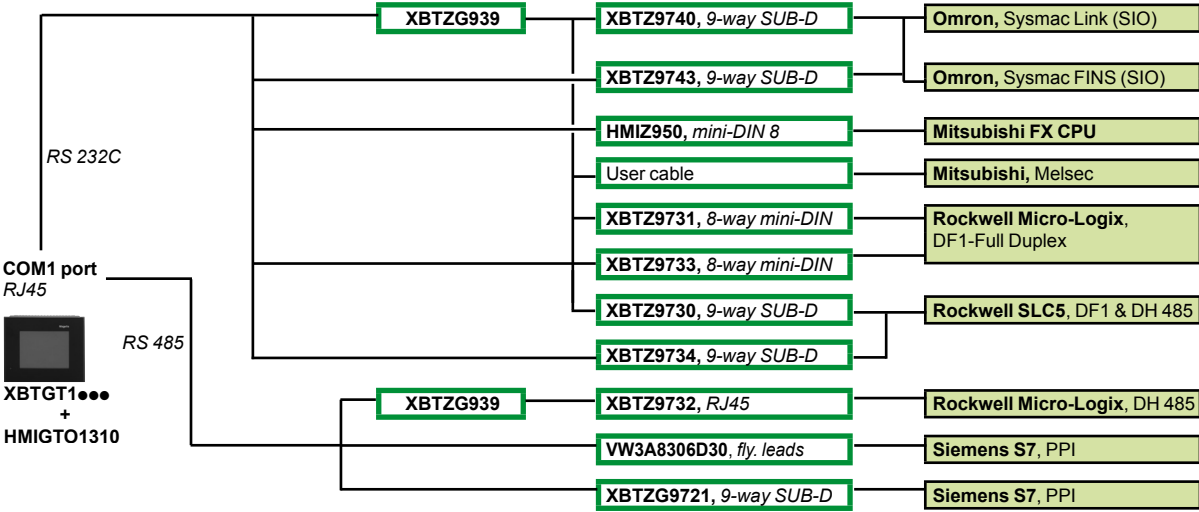
- 1, 5 m

- 6, 16 m

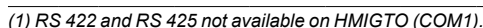
- 7, 20 m

- 8, 25 m

XBTGT11●5 terminals, HMIGTO1310 terminals and third party PLCs



2

**XBTGT1100/1130**

■ How to find products?	
□ Search, visualize, and download	page 3/2
□ Access product references with adapted tools	page 3/4
□ Compare, select, and compile	page 3/6
□ Check the product status, design your equipment	page 3/7
■ Product reference index.....	page 3/8

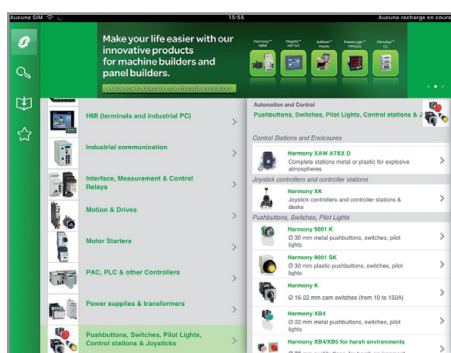
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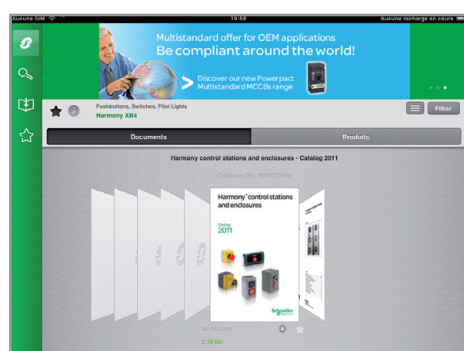


Tablets

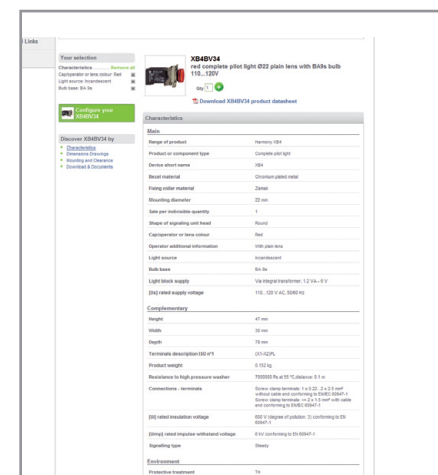
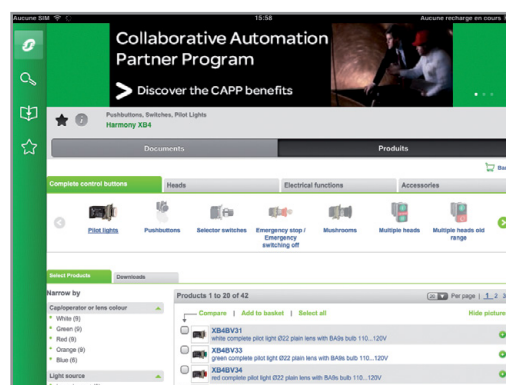
Application name: "Automation Library by Schneider Electric"



Product ranges
displayed by function



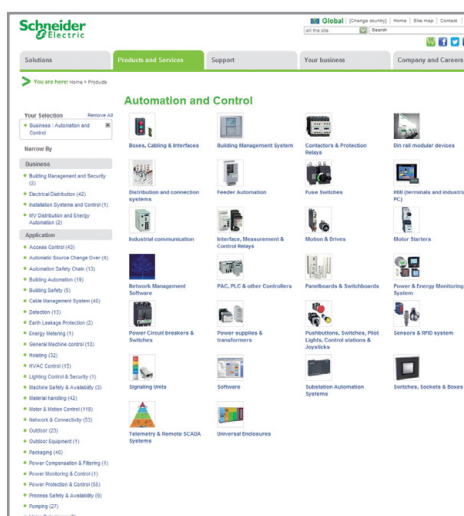
Dynamic catalogs
(hyperlinks, video, ...)



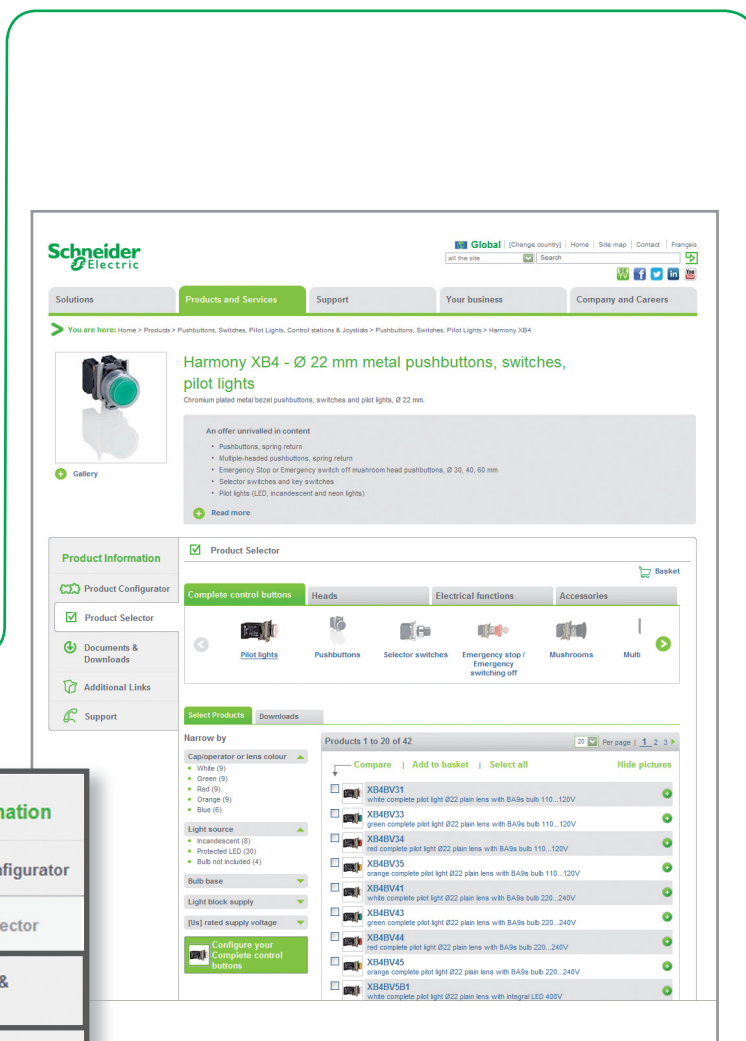
Product selector: dynamic filters to
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Personal computer

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Product ranges
displayed by function



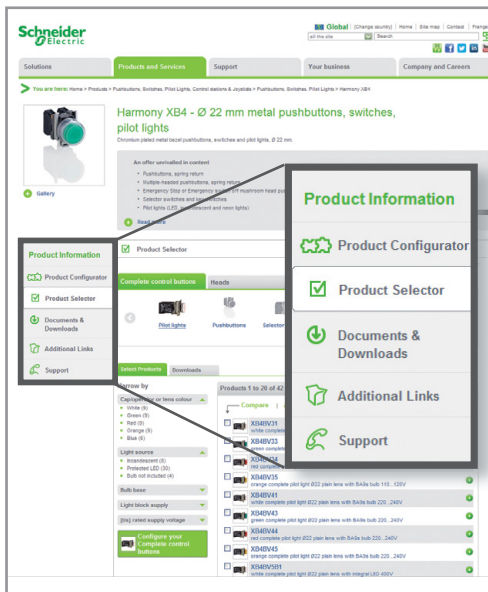
Dynamic catalogs
(hyperlinks, video, ...)

Product selector: dynamic filters to
get easily your part number

Access product references with adapted tools

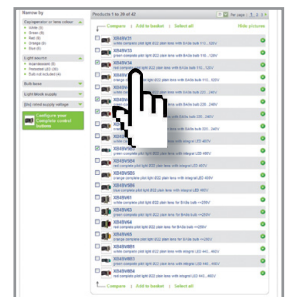
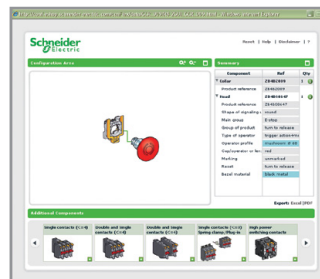
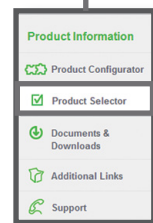
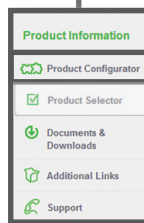


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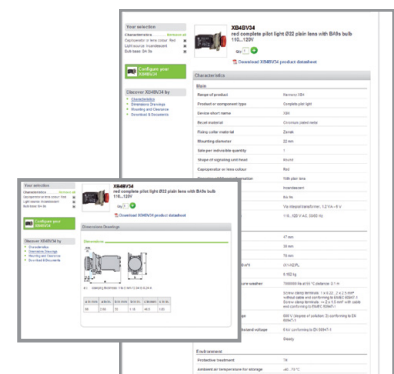


Graphic product configurator
Select the right product with just a few clicks

Dynamic product selector
Visualize product characteristics and dimensions



Product data sheet
with technical characteristics
and dimensions

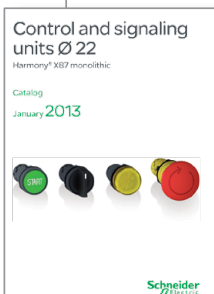
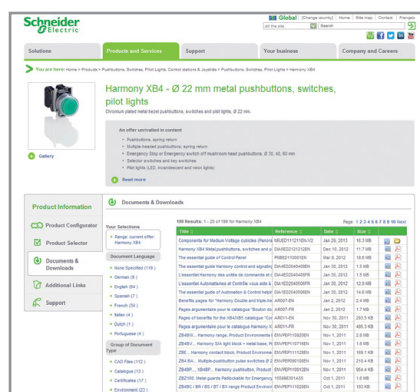
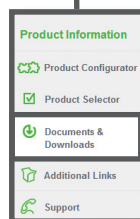


Dimensions

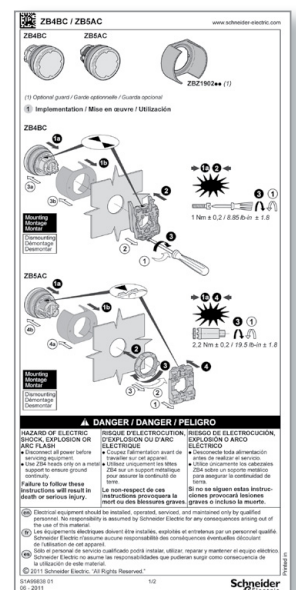
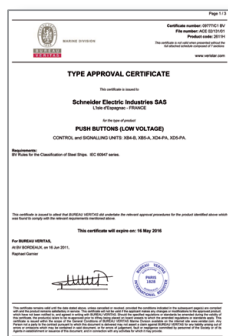
**Technical
characteristics**

Documents and downloads

Visualize and download catalogs, technical publications, certificates, etc.



Essential guides



Dynamic catalogs

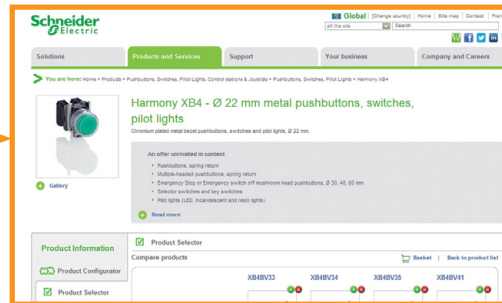
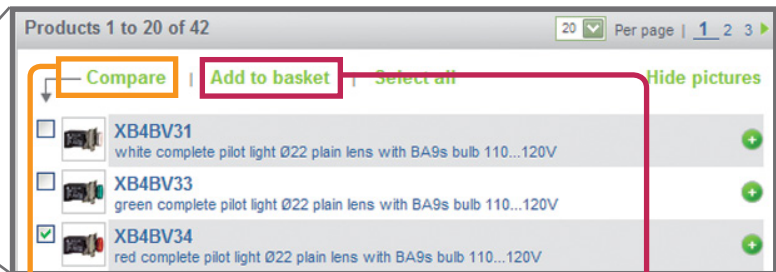
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Technical publications

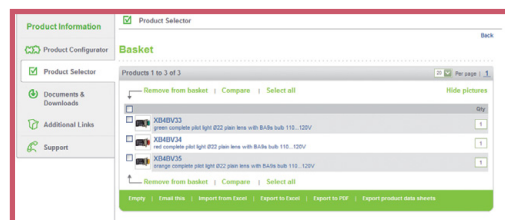
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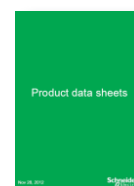
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Compare technical characteristics



Select and store your products into the basket



Compile all data sheets in a unique document

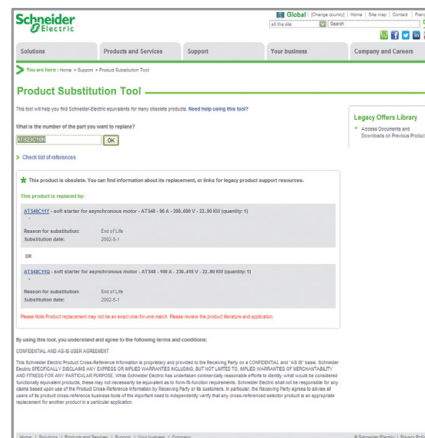
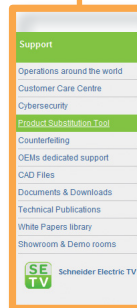
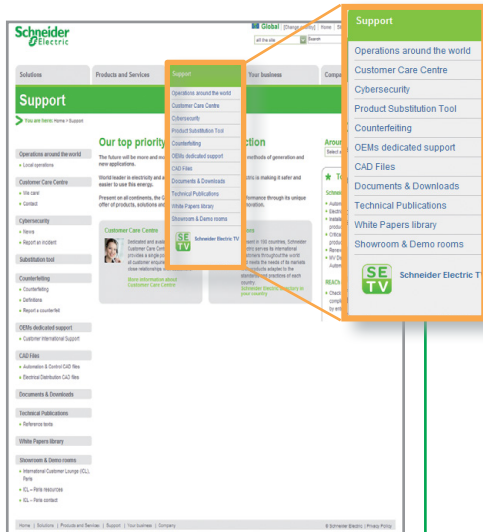
* Example of research on a product

Check the product status, design your equipment

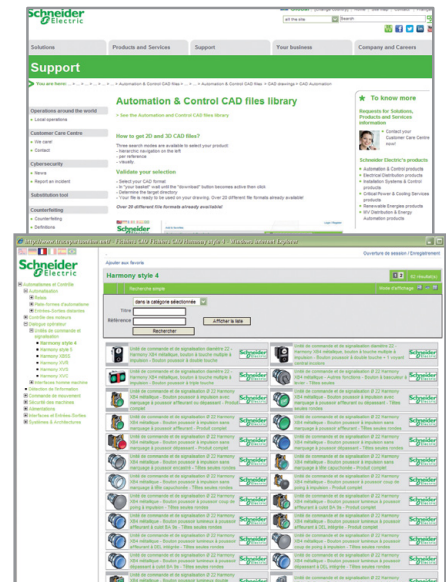


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Path: www.schneider-electric.com > **Support** > CAD files



Product status:
indicate whether the product
is still commercialized.
Otherwise, the tool suggests a
product substitution.



CAD files:
available in various formats
they will be easily integrated
into your installation design
software.

Please note that references to products and services are just examples.

490NTW00002	2/19	HMIZSUSBB	2/13
490NTW00005	2/19	HMIZURS	2/15
490NTW00012	2/19		
490NTW00040	2/19	S	
490NTW00080	2/19	STBXCA4002	2/16
990NAA26320	2/16	T	
B		TSXCUSBFIP	2/20
BMXXCAUSBH018	2/15	TSXPCX1031	2/16
	2/16	V	
BMXXCAUSBH045	2/16	VW3A8306	2/19
H		VW3A8306D30	2/18
HMIGTO1300	2/11	VW3A8306R30	2/16
HMIGTO1310	2/11	VW3A8306TF10	2/19
HMIGTO2300	2/11	X	
HMIGTO2310	2/11	XBTZ915	2/15
HMIGTO2315	2/11	XBTZ988	2/16
HMIGTO3510	2/11	XBTZ9710	2/16
HMIGTO4310	2/11	XBTZ9711	2/16
HMIGTO5310	2/11	XBTZ9732	2/18
HMIGTO5315	2/11	XBTZ9780	2/16
HMIGTO6310	2/11		2/19
HMIGTO6315	2/11	XBTZ9782	2/16
HMIZ951	2/17	XBTZ9980	2/16
HMIZECOV1	2/12	XBTZ9982	2/16
HMIZECOV2	2/12	XBTZG919	2/15
HMIZECOV4	2/12	XBTZG939	2/15
HMIZECOV5	2/12	XBTZG9292	2/18
HMIZECOV6	2/12	XBTZG9721	2/18
HMIZG51	2/14	XBTZG9731	2/17
HMIZG52	2/14		2/18
HMIZG54	2/14	XBTZG9740	2/17
HMIZG55	2/14	XBTZG9772	2/17
HMIZG56	2/14	XBTZG9774	2/17
HMIZG60	2/12	XBTZGCO4	2/13
HMIZG62	2/12	XBTZGI232	2/15
HMIZG63	2/12	XBTZGI485	2/15
HMIZG64	2/12	XBTZGUMP	2/20
HMIZG65	2/12	XBTZGUSBB	2/13
HMIZG66	2/12		
HMIZG522	2/14		
HMIZG552	2/14		
HMIZG562	2/14		
HMIZGBAT	2/14		
HMIZGCLP1	2/14		
HMIZGFIX	2/14		
HMIZGFIX2	2/14		
HMIZGPWS	2/14		
HMIZGPWS2	2/14		
HMIZLYGO1	2/14		
HMIZLYGO3	2/14		
HMIZSCLP3	2/14		
HMIZSD4G	2/12		

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