Harmony GK

Keyboard HMI with configurable
touchscreen display adapted
to severe environment

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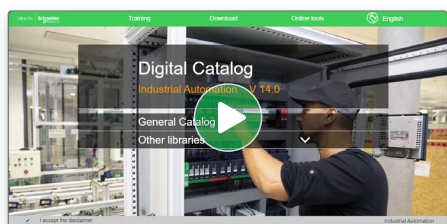
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General contents

Harmony GK
Keyboard HMI with configurable touchscreen display adapted to severe environment

Harmony GK
Keyboard HMI with configurable touchscreen display adapted to severe environment

Harmony GK are ultra-flexible graphic panels are available in both keypad and touchscreen user interface options. They have similar display and communication characteristics to Harmony GTO and enhance the operator experience with the addition of a keypad. They are available in two screen sizes (5.7" and 10.4") which can be configured and controlled to meet the user's requirements.

Designed to operate in severe environments, Harmony GK panels give optimum control by means of the keypad and touchscreen. They are suitable for industrial sectors exposed to harsh environments, such as:
■ Material manufacturing: cement, bricks, wood, glass, etc.
■ Metal
■ Pulp & paper
■ Mining
■ Automotive

HMIGK2310   *HMIGK5310*

Harmony GK

Ultra-flexible user interface
The touchscreen and keypad keys can be configured simultaneously or separately with:
■ Function keys (Fi) with customizable labels or associated screen pictograms (Ri)
■ Industrial pointer to execute precise commands on screen
■ Alphanumeric keypad based on a mobile phone keypad principle
■ 3-color LEDs associated with function keys to signal command status
■ Improved key sensitivity for visual machine control

Easy operation
In difficult, dusty, or dirty conditions, when the touchscreen cannot be used, the Harmony GK panel can still be operated wearing gloves, because of positive keypad action.
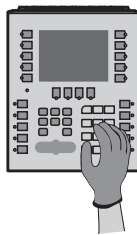
Optimum security for operators
The keypad is securely designed, ensuring operators can access the command keys at any time with possible dual actions, and locked during critical operation phases.

Easy maintenance
The Harmony GK has enhanced features that enable easy maintenance and time saving, such as:
■ Long-life LED backlight with low power consumption and fewer replacements
■ Highly robust with operating temperatures up to 55 °C, reducing risks during maintenance and the time taken
■ In-built SD card slot and standard SD media card, so no PC is required to upgrade the application on site
■ Easy installation with tool-free mounting spring clips
■ Simple replacement of removable batteries
■ Remote diagnostics with Vijeo Air enable maintenance staff to identify issues without being physically present at site

Harmony GK ➜ Robust & ultra-flexible HMI for industrial operations

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Harmony GK
Keyboard HMI with configurable touchscreen display adapted to severe environment

Harmony GK (continued)

Easy substitution

Existing Harmony XBTF or XBTGK panels with keypads can easily be replaced with Harmony GK panels:

- Identical screen size and communication capability
- Same cut-out and keypad layout
- Use of spring clips
- Same configuration software with Vijeo Designer

Vijeo Designer software

With the advanced ergonomic design of Harmony GK, the single Vijeo Designer configuration software in Schneider Electric's HMI range ensures that operator dialogue projects can be processed quickly and easily. It also offers a complete set of application management tools.

The Vijeo Air offer is fully compatible with Harmony GK and enables remote access and connectivity anytime, anywhere.

Vijeo Designer software

Vijeo Design' Air

Harmony GK ➜ Dedicated to severe environments

Harmony GK
Keyboard HMI with configurable touchscreen display adapted to severe environment

Applications		Display of text messages, graphic objects and synoptic views Control and configuration of data	Display of text messages, graphic objects and synoptic views Control and configuration of data
Type of panel		Keypad-Touchscreen panels	Keypad-Touchscreen panels
Screen	Type	Color TFT LCD	Color TFT LCD
	Size	5.7"	10.4"
	Resolution	QVGA, 320 x 240 pixels, 65 K colors	VGA, 640 x 480 pixels, 65 K colors
	Backlight	Life span > 50,000 hrs @ 25 °C/77 °F	Life span > 50,000 hrs @ 25 °C/77 °F
Data entry		Via keypad and/or touchscreen (configurable) and/or industrial pointer	Via keypad and/or touchscreen (configurable) and/or industrial pointer
	Static function keys	10	12
	Dynamic function keys	14	18
	Service keys	8	8
	Alphanumeric keys	12	12
Memory capacity	Application	128 MB Flash EPROM	128 MB Flash EPROM
	Expansion	4 GB SD Card	4 GB SD Card
Functions	Maximum number of pages	Limited by capacity of internal Flash EPROM memory or SD card memory	Limited by capacity of internal Flash EPROM memory or SD card memory
	Variables per page	Unlimited (8000 variables max.)	Unlimited (8000 variables max.)
	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED	Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED
	Recipes	32 groups of 64 recipes comprising 1024 ingredients max.	32 groups of 64 recipes comprising 1024 ingredients max.
	Curves	Yes, with log	Yes, with log
	Alarm logs	Yes	Yes
	Real-time clock	Built-in	Built-in
	Discrete I/O	–	–
	Multimedia I/O	–	–
Communication	Downloadable protocols	Uni-TE, Modbus, Modbus TCP/IP and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens	Uni-TE, Modbus, Modbus TCP/IP and for PLC brands: Mitsubishi, Omron, Allen-Bradley and Siemens
	Asynchronous serial link	RS-232C (COM1) RS-485 (COM2)	RS-232C (COM1) RS-485 (COM2)
	USB ports	2	2
	Bus and networks	Modbus Plus, Fipway with USB gateway	Modbus Plus, Fipway with USB gateway
		Ethernet TCP/IP (10BASE-T/100BASE-TX)	Ethernet TCP/IP (10BASE-T/100BASE-TX)
	Printer link	RS-232C (COM1) serial link, USB port for parallel printer	RS-232C (COM1) serial link, USB port for parallel printer
Development software		Vijeo Designer (on Windows 10 Professional and Windows 7 Professional 32/64-bit)	Vijeo Designer (on Windows 10 Professional and Windows 7 Professional 32/64-bit)
Operating system		Harmony (CPU 333 MHz RISC)	Harmony (CPU 333 MHz RISC)
Type of panel		**HMIGK2310**	**HMIGK5310**
Page		11	11

More technical information on www.se.com

Harmony GK
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HMIGK2310

Display page

Presentation

The Harmony GK offers a range of keypad-touchscreen panels (HMIGK) available in 5.7" and 10.4" (color) panel sizes.

Operation

The HMIGK panels can be operated at several function levels. These multifunction Harmony GK panels feature information and communication technologies, which include:

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

Configuration

Harmony GK panels can be configured using Vijeo Designer software in a Windows 7, Windows 8.1 and Windows 10 Pro environment.

Vijeo Designer software boasts an advanced user interface with many configurable windows, enabling projects to be developed quickly and easily. The Harmony GK range is compatible with Vijeo Designer V6.2 SP4.1 or later. For more information, please refer to Vijeo Designer catalog (DIA5ED2130614EN).

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Communication

Harmony GK panels communicate with PLCs via one or two integrated serial links, using the following communication protocols:
- Schneider Electric (Uni-TE, Modbus)
- Third-party: Mitsubishi Electric, Omron, Allen-Bradley and Siemens

Harmony GK panels can be connected to Ethernet TCP/IP networks using Modbus TCP or third-party protocols, and to fieldbuses (Fipway, Modbus Plus).
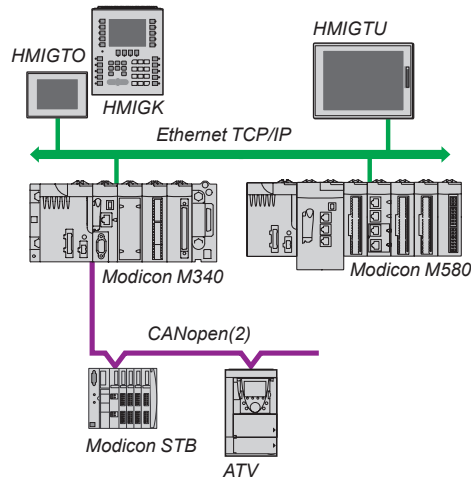
Functions

Harmony GK panels offer the following functions:
- Display of animated mimics with 8 types of animation (pressing the touch panel, color changes, filling, movement, rotation, size, visibility and value display)
- Control and modification of numeric or alphanumeric variables
- Display of current date and time
- Real-time and trending curves with log
- Alarm display, alarm log and management of alarm groups
- Multiwindow management
- Page calls initiated by the operator
- Multilingual application management (10 languages at the same time)
- Recipe management
- Data processing via Java script
- Storage of the application and logs on external SD application memory card (multifunction range) or USB key
- Serial printer and bar code reader management

Architectures and communication

The Harmony GK range is perfectly integrated in the EcoStruxure Machine *(1)* automation solutions offer, which helps machine manufacturers (OEMs) quickly design optimized machines (in terms of cost and energy efficiency).

EcoStruxure Machine solutions are based on high-performance control platforms and a single software package: SoMachine and EcoStruxure Machine Expert. SoMachine and EcoStruxure Machine Expert allows the development, commissioning and programming of machines. SoMachine version 4.2 allows programming of panels in the Harmony GK range using Vijeo Designer software.

Harmony GK Panels have been designed for EcoStruxure Plant *(1)* and EcoStruxure Machine *(1)* architectures and also 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 panel application from a PC with an Internet browser. Vijeo Designer also allows Harmony Panels to browse HTML pages and send e-mails.

(1) For more information on the "EcoStruxure Plant and EcoStruxure Machine" concept, please refer to our website www.se.com/Solutions/EcoStruxure Plant and Machine.
(2) For more information on CANopen bus references, please refer to CANopen for machines catalog on our website www.se.com.

SoMachine

EcoStruxure Machine Expert

Vijeo Designer

Harmony GK
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Panel operating modes

The following illustrations show which equipment can be connected to Harmony GK according to the two operating modes.

Edit mode

Ethernet network

HMIGK

USB

Memory stick

PC running Vijeo Designer software

Connection cable BMXXCAUSBH018

SD memory card (1)

Operating mode

USB port expander

Modicon M340

Memory stick

Mouse

Keyboard

Ethernet network

HMIGK

Bar code reader

XBTZ915

Serial printer

Parallel printer (2)

USB

SD memory card

COM1

XBTZ9780

COM2

Modicon M2●8
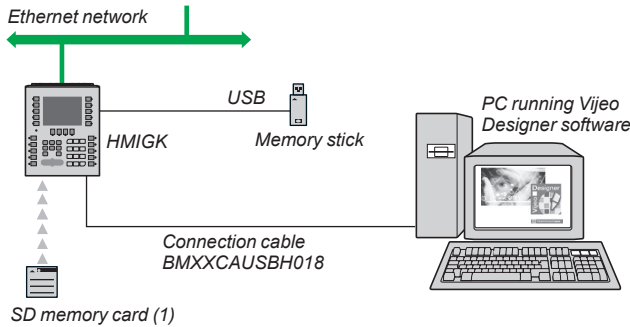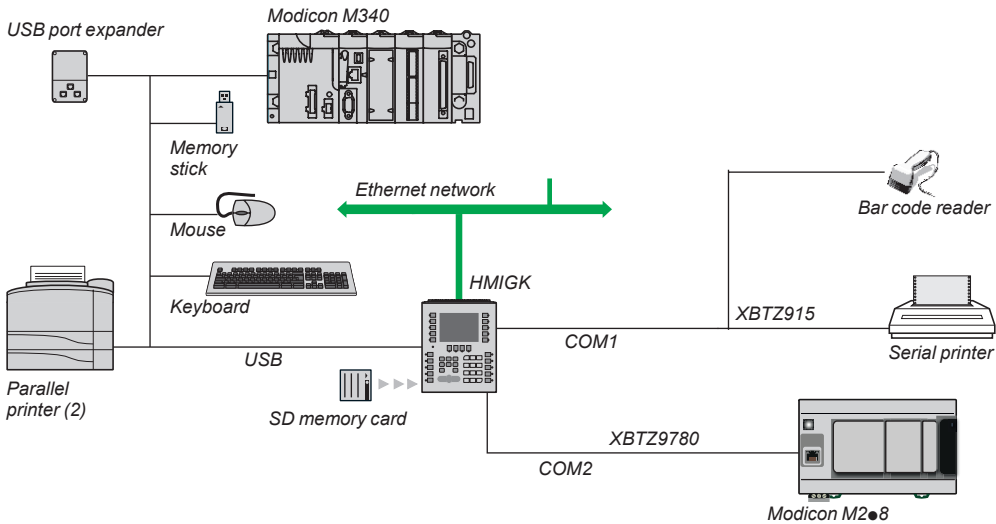
Improve environmental resistance with Conformal Coating

The Conformal Coating service offer consists of varnishing the electronic cards to prolong the service life of the panels and enable them to be used in corrosive environments. Varnishing increases resistance to condensation, dusty atmospheres and chemical corrosion (sulphurous and halogenous atmospheres). For further information on this service offer, please contact our Customer Care Center.

Harmony Small panels with keypad-touchscreen flexibility

The Harmony GK keypad is consistent with the design and features of USB keypad accessory **HMIZKB1**. HMI small touchscreen panels can thus also be converted to keypad-touchscreen panels by connecting this USB keypad accessory.

HMIZKB1

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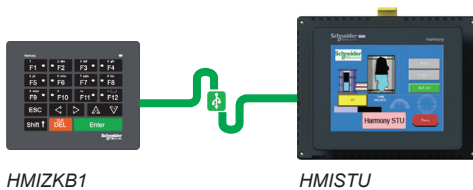
(1) Validated with Hewlett Packard printer via USB/PIO converter.

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Accessories:
page 11

Connections:
page 15

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HMIGK2310: 5.7" screen
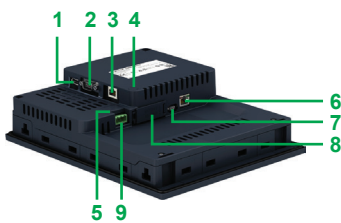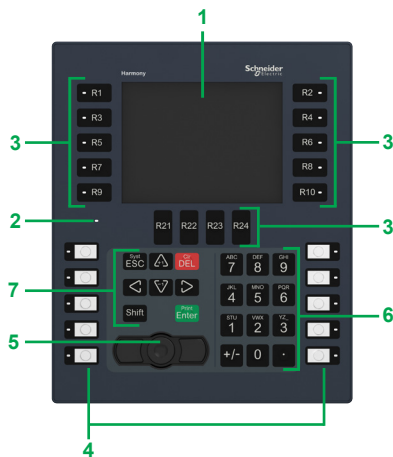
Description

HMIGK2310

Front view

1 A touchscreen for displaying synoptic views (5.7" color) which is configurable with Vijeo Designer
2 A multicolor status indicator (green, orange and red) showing the panel operating mode
3 14 dynamic function keys (Ri) with 3-color LED (green, orange, red)
4 10 static function keys (Fi) with 3-color LED (green, orange, red) and customizable labels
5 An industrial mouse pointer " ⌐ ", configurable using Vijeo Designer
6 12 alphanumeric keys (0...9, +/-, .), which can be pressed several times in succession to access characters (A...Z)
7 8 service keys:

Key	Function
Clr DEL	Delete character to left of cursor
◁ ▷	Move cursor to right or left in an entry field
Print Enter	Confirm a selection or entry
Shift	Access the second of the dual key functions
△ ▽	Increment or decrement a numeric field value or activate the next or previous object
Syst ESC	Exit entry mode
Shift + Syst ESC	Display the configuration menu of the panel
Shift + Print Enter	Copy the current screen
Shift + Clr DEL	Delete entire field

Rear view

1 A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 panel port communication (USB1)
2 A 9-way male SUB-D connector for RS-232C serial link to PLCs (COM1)
3 An RJ45 connector for RS-485 serial link (COM2)
4 An SD card access LED indicator
5 A COM2 yellow LED indicating data transmission status
6 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX
7 A mini-B USB connector for application transfer (USB2) *(1)*
8 A slot for SD memory card/battery with cover
9 A removable screw panel block for 24 V ⎓ power supply

(1) See page 12 for details of the required connection accessories.

Harmony GK
Keyboard HMI with configurable touchscreen
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HMIGK5310: 10.4" screen
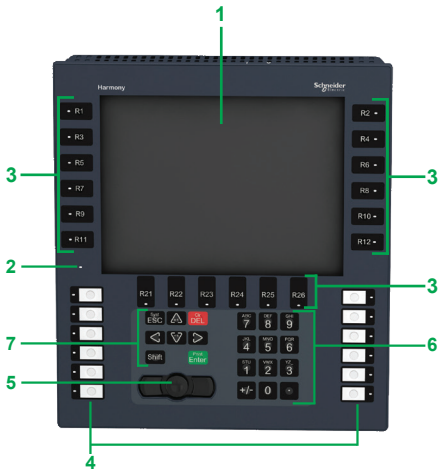
Description (continued)
HMIGK5310
Front view

1 A touchscreen for displaying synoptic views (10.4" color TFT) which is configurable using Vijeo Designer
2 A multicolor status indicator (green, orange and red) showing the panel operating mode
3 18 dynamic function keys (Ri) with 3-color LED (green, orange, red)
4 12 static function keys (Fi) with 3-color LED (green, orange, red) and customizable labels
5 An industrial mouse pointer " ", configurable using Vijeo Designer
6 12 alphanumeric keys (0...9, +/-, .), which can be pressed several times in succession to access characters (A...Z)
7 8 service keys:

Clr DEL	Delete character to left of cursor
◁ ▷	Move cursor to right or left in an entry field
Print Enter	Confirm a selection or entry
Shift	Access the second of the dual key functions
△ ▽	Increment or decrement a numeric field value or activate the next or previous object
Syst ESC	Exit entry mode
Shift + Syst ESC	Display the configuration menu of the panel
Shift + Print Enter	Copy the current screen
Shift + Clr DEL	Delete entire field
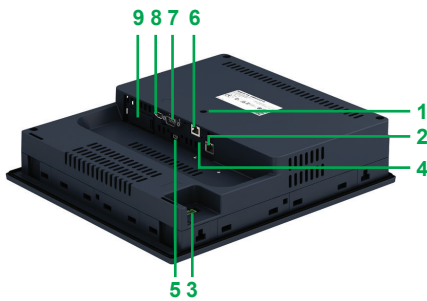
Rear view

1 An SD card access LED indicator
2 An RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX
3 A removable screw panel block for 24 V ⎓ power supply
4 A COM2 yellow LED indicating data transmission status
5 A mini-B USB connector for application transfer (USB2) *(1)*
6 An RJ45 connector for RS-485 (COM2) with switch for polarization of the link used on Modbus
7 A 9-way male SUB-D connector for RS-232C serial link to PLCs (COM1)
**8** A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 panel port communication (USB1)
9 A slot for SD memory card/battery, with hinged cover

(1) See page 12 for details of the required connection accessories.

Harmony GK
Keyboard HMI with configurable touchscreen display adapted to severe environment
Keypad-Touchscreen panels, protection accessories and separate parts

HMIGK2310

HMIGK5310

XBTZGUSB

Keypad-Touchscreen panels *(1)*

Type of screen	Number of ports	Application memory capacity	SD memory card	Video input	Number of Ethernet ports	Reference	Weight kg/*lb*
5.7" screen							
TFT Color mode	1 COM1 1 COM2 2 USB	128 MB	Yes	No	1	**HMIGK2310**	1.800/ *3.968*
10.4" screen							
TFT Color mode	1 COM1 1 COM2 2 USB	128 MB	Yes	No	1	**HMIGK5310**	3.300/ *7.275*

Protection accessories

Description	Details	Compatible with panels	Reference	Weight kg/*lb*
Protective sheets (5 peel-off sheets)	Disposable, dirt-resistant sheet for the display	HMIGK2310	**XBTZG68**	–
		HMIGK5310	**XBTZG69**	–
Seals	Provide dust and moisture resistance when this product is installed in a solid panel	HMIGK2310	**XBTZG58**	–
		HMIGK5310	**XBTZG59**	–

Separate parts

Description		For use with panels	Reference	Weight kg/*lb*
USB fastenings Sold in lots of 5	**Type A**	HMIGK●●●●	**HMIZGCLP1**	–
	Type mini-B		**HMIZSCLP3**	–
Power supply connector Sold in lots of 5		HMIGK●●●●	**HMIZGPWS**	0.030/ *0.066*
Sheets of customizable labels for GK panels Sold in lots of 10		HMIGK2310	**XBLYGK2**	0.030/ *0.066*
		HMIGK5310	**XBLYGK5**	–
Spring clip fasteners		HMIGK●●●●	**XBTZ3002**	–
Remote USB port for panel GK●●●	Enables the USB type A port to be located remotely on the rear of the XBT panel on a panel or enclosure door (Ø 21 mm fixing device)	HMIGK2310 HMIGK5310	**XBTZGUSB**	–
Remote USB port for panel GK●●●	Enables the USB mini-B port to be located remotely on the rear of the HMIGK panel on a panel or enclosure door (Ø 21 mm fixing device)		**HMIZSUSBB**	–
SD Memory Card 4GB	4 GB SD Memory Card		**HMIZSD4G**	–

Equivalent product table between XBTGK panels and HMIGK panels

Old range XBTGK	New range HMIGK	Comments
XBTGK2120	**HMIGK2310**	
XBTGK2330	**HMIGK2310**	
XBTGK5330	**HMIGK5310**	**No auxiliary connector, only one USB port type A**

Note: When upgrading from Harmony XBTGK range to the Harmony GK range, the following parameters must be taken into account:
- Connection fieldbus Profibus DP and DeviceNet not possible
- COM1 serial ports only support RS232C signal
- No CF card but SD card for optional storage unit
- No CANopen Primary support with Combo function
- An additional mini-B USB port available for easy application download
- Same cut-out and same keypad layout
- New backlight LED with less consumption
- Battery is now removable

(1) Fixing kit (spring clips), locking device for USB connectors, customizable label sheets and instruction sheet included with panels.

Note: The separate part products may be changed or discontinued without notice. Please check our website *www.se.com* for the latest information.

Harmony GK
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Connection accessories

Cables for application transfer - Panel to PC

Type of panel (panel end connector)	Connector (PC end)	Type	Length m/*ft*	Reference (1)	Weight kg/*lb*
HMIGK	USB mini-B	USB	1.8/ *5.91*	**BMXXCAUSBH018**	0.230/ *0.507*

Printer connection cables

Type of printer (2)	Connector (printer end)	Type	Length m/*ft*	Reference	Weight kg/*lb*
Serial printer for HMIGK panels	25-way SUB-D female	RS-232C (COM1)	2.5/ *8.20*	**XBTZ915**	0.200/ *0.441*
Serial printer for HMIGK panels	USB	RS-232C (COM1)	1.80/ *5.91*	**HMIZURS**	–

Adaptors and isolation boxes for Harmony GK panels

These 2 adaptors are used with the connection cables depending on the application concerned.

Description	Type of connector (automation product end)	Physical link (HMIGK panel end)	Length m/*ft*	Reference	Weight kg/*lb*
Adaptor for HMIGK (COM2 port)	25-way SUB-D connector	RJ45 connector	0.2/ *0.66*	**XBTZG939**	–
Adaptor for HMIGK (COM1 port)	25-way SUB-D connector	9-way SUB-D connector, RS-232C	0.2/ *0.66*	**XBTZG919**	–

XBTZG939

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

XBTZGI485

Cables for connecting Harmony panels to other Schneider Electric products

Automation product type	Type of connector (automation product end)	Protocol	Type of panel	Link	On port	Length m/*ft*	Reference	Weight kg/*lb*
Nano, Modicon TSX Micro, Modicon Premium	Panel port, 8-way female mini-DIN	Uni-TE (V1/V2), Modbus	HMIGK	RS-485	COM2	2.5/ *8.20*	**XBTZ9780**	0.180/ *0.397*
						10/ *32.80*	**XBTZ9782**	–
Modicon M340 Modicon M2●●	RJ45	Modbus	HMIGK	RS-485	COM2	2.5/ *8.20*	**XBTZ9980**	0.230/ *0.507*
						10/ *32.80*	**XBTZ9982**	–
Modicon M340	USB Mini-B	Panel port	HMIGK	USB	USB type A	1.8/ *5.91*	**BMXXCAUSBH018**	0.230/ *0.507*
						4.5/ *14.76*	**BMXXCAUSBH045**	–
Modicon Quantum	9-way male SUB-D	Modbus	HMIGK	RS-232C	COM1	2.5/ *8.20*	**XBTZ9710** + (4)	0.210/ *0.463*
						3.7/ *12.14*	**990NAA26320**	0.290/ *0.639*
Modicon STB	HE13 (NIM, network interface module)	Modbus	HMIGK	RS-232C	COM1	2/ *6.56*	**STBXCA4002**	0.210/ *0.463*
						2.5/ *8.20*	**XBTZ988** + (4)	0.220/ *0.485*
Modicon Momentum M1	RJ45 (port 1 on Momentum M1)	Modbus	HMIGK	RS-232C	COM1	2.5/ *8.20*	**XBTZ9711** + (4)	0.210/ *0.463*
TeSys U, T starters ATV 312/61/71 variable speed drives ATS 48 starters Lexium 05 Preventa XPSMC	RJ45	Modbus	HMIGK	RS-485	COM2	3/ *9.84*	**VW3A8306R30**	0.060/ *0.132*
						2.5/ *8.20*	**XBTZ9980**	–
						10/ *32.80*	**XBTZ9982**	–

(1) Cable included (depending upon the model) with Vijeo Designer software packages, refer to Vijeo Designer catalog DIA5ED2130614EN.
(2) Parallel printer (see page 8).
(3) Male connector with XBTZGI232, female connector with XBTZGI485.
(4) XBTZG919 adaptor to be used with cables.

Note: *The connection accessories may be changed or discontinued without notice. Please check our website www.se.com for the latest information.*

Harmony GK
Keyboard HMI with configurable touchscreen
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Connection accessories

XBTZG9772

XBTZG9731

Cables and adaptors for connecting Harmony panels to third-party PLCs

Mitsubishi, Melsec PLCs

Description *Driver used*	Type of panel	Type of connector (fitted to cable, excluding adaptor)	Physical link (COM1)	Length m/*ft*	Reference	Weight kg/*lb*
Connection cable *Q Link (SIO)*	HMIGK	9-way SUB-D 9-way SUB-D	RS-232C	5/ *16.40*	**XBTZG9772**	–
Connection cable *Q CPU (SIO)*	HMIGK	9-way SUB-D mini-DIN	RS-232C	5/ *16.40*	**XBTZG9774**	–
Connection cable *A Link (SIO)*	HMIGK	9-way SUB-D 25-way SUB-D	RS-232C	5/ *16.40*	**XBTZG9731**	–
Connection cable *FX (CPU)*	HMIGK	9-way SUB-D mini-DIN	RS-422	5/ *16.40*	**XBTZ980** + **XBTZG919**	–

Omron, Sysmac PLCs

Description *Driver used*	Type of panel	Type of connector (fitted to cable, excluding adaptor)	Physical link (COM1)	Length m/*ft*	Reference	Weight kg/*lb*
Connection cables *Link (SIO)*	HMIGK	9-way SUB-D 9-way SUB-D	RS-232C	5/ *16.40*	**XBTZG9740**	–
		9-way SUB-D 25-way SUB-D	RS-232C	5/ *16.40*	**XBTZG9731**	–
Connection cables *FINS (SIO)*	HMIGK	9-way SUB-D 9-way SUB-D	RS-232C	5/ *16.40*	**XBTZG9740**	–

Rockwell Automation, Allen-Bradley PLCs

| Description *Driver used*	Type of panel	Type of connector (fitted to cable, excluding adaptor)	Physical link	Length m/*ft*	Reference	Weight kg/*lb*
Connection cables *DF1 Full Duplex*	HMIGK	9-way SUB-D 25-way SUB-D	RS-232C (COM1)	5/ *16.40*	**XBTZG9731**	–
Connection cables *DH485*	HMIGK	25-way SUB-D 8-way mini-DIN	RS-485 (COM2)	5/ *16.40*	**XBTZ9732** + **XBTZG939**	–

Siemens, Simatic PLCs

Description *Driver used*	Type of panel	Type of connector (fitted to cable, excluding adaptor)	Physical link	Length m/*ft*	Reference	Weight kg/*lb*
Connection cable *PPI, S7 200*	HMIGK	RJ45/9-way SUB-D	RS-485 (COM2)	2.5/ *8.20*	**XBTZG9721**	–
Connection cables *MPI port, S7 300/400*	HMIGK	9-way SUB-D 9-way SUB-D	RS-232C (COM1)	3/ *9.84*	**XBTZG9292**	–

Note: The connection accessories may be changed or discontinued without notice. Please check our website www.se.com for the latest information.

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Harmony GK
Keyboard HMI with configurable touchscreen display adapted to severe environment
Connection accessories

TSXSCA62   TSXPACC01

TSXSCA64   LU9GC3

VW3A8306TF10

TWDXCAISO
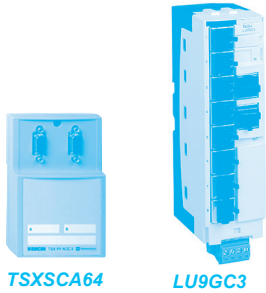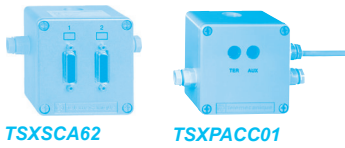
Connection of Harmony panels via serial links and Ethernet network

Type of bus/ network	Tap-off units	Connector (tap-off unit side)	Type of panel	Length m/ft	Reference	Weight kg/lb
Uni-Telway serial link	Subscriber socket **TSXSCA62**	15-way female SUB-D	HMIGK (COM2)	3/ 9.84	**VW3A8306**	0.150/ 0.330
	Connection box **TSXPACC01**	8-way female mini-DIN	HMIGK (COM2)	2.5/ 8.20	**XBTZ9780**	0.180/ 0.397
Modbus serial link	Subscriber socket **TSXSCA64**	15-way female SUB-D	HMIGK (COM2)	3/ 9.84	**VW3A8306**	0.150/ 0.330
	8-port Modbus splitter box **LU9GC3** 2-port tap-off junction **TWDXCAISO** **TWDXCAT3RJ**	RJ45	HMIGK (COM2)	2.5/ 8.20	**XBTZ9980**	–
	T-junction box	With integrated cable, RJ45 fitted	HMIGK (COM2)	–	**VW3A8306TF10**	–
Ethernet TCP/IP network	Hubs 499 NEH/NOH Switches 499 NES, 499 NMS, 499 NSS and 499 NOS	RJ45	HMIGK●●30	2/ 6.56	**490NTW00002**	–
				5/ 16.40	**490NTW00005**	–
				12/ 39.37	**490NTW00012**	–
				40/ 131.23	**490NTW00040**	–
				80/ 262.47	**490NTW00080**	–

Connection of Harmony panels to fieldbuses

Type of bus/network	Connection components	Type of panel	Reference	Weight kg/lb
Fipway, Fipio	USB gateway	HMIGK	**TSXCUSBFIP**	–
Modbus Plus	USB gateway	HMIGK	**XBTZGUMP**	–

Modular regulated switch mode power supplies (1)

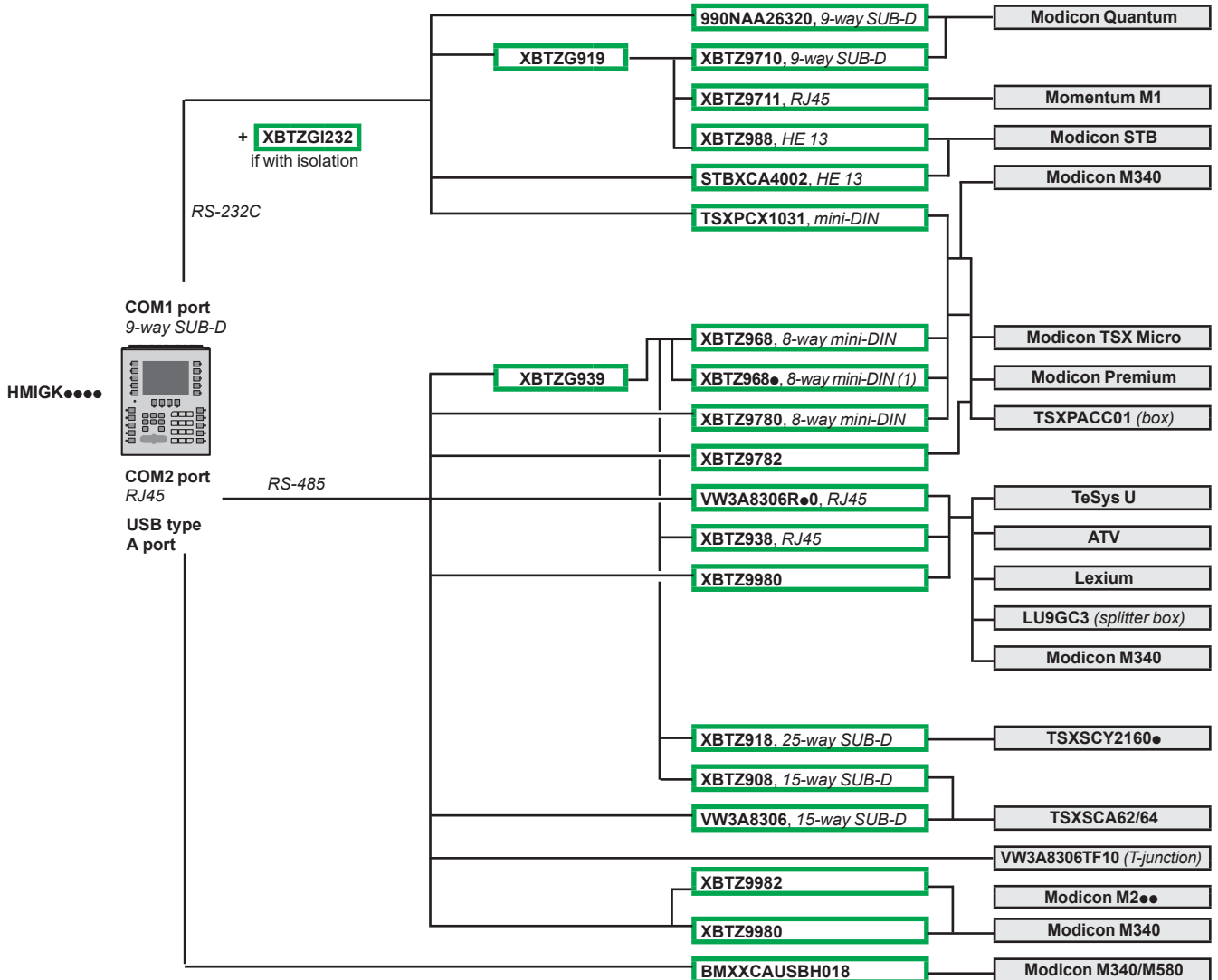| Input voltage/ Output voltage	Combination with panels	Nominal power	Nominal current	Reference	Weight kg/lb
100...240/24 V single-phase wide range line supply 47...63 Hz	HMIGK	30 W	1.2 A	**ABL8MEM24012**	0.195/ 0.430

(1) Dimensions: H x W x D = 90 x 54 x 59 mm/3.54 x 2.13 x 2.32 in. (ABL8MEM24012) and 90 x 72 x 59 mm/ 3.54 x 2.83 x 2.32 in. (ABL7RM24025). For further information, please refer to our website www.se.com.

Note: *The connection accessories may be changed or discontinued without notice. Please check our website www.se.com for the latest information.*

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Harmony GK
Keyboard HMI with configurable touchscreen display adapted to severe environment
Connection system

HMIGK panels and Schneider Electric products

990NAA26320, *9-way SUB-D*		**Modicon Quantum**
XBTZG919 → **XBTZ9710**, *9-way SUB-D*		
XBTZ9711, *RJ45*		**Momentum M1**
XBTZ988, *HE 13*		**Modicon STB**
STBXCA4002, *HE 13*		**Modicon M340**
TSXPCX1031, *mini-DIN*		

+ XBTZGI232
if with isolation

RS-232C

COM1 port
9-way SUB-D

HMIGK●●●●

COM2 port
RJ45

RS-485

**USB type
A port**

XBTZG939 → **XBTZ968**, *8-way mini-DIN*	**Modicon TSX Micro**
XBTZ968●, *8-way mini-DIN (1)*	**Modicon Premium**
XBTZ9780, *8-way mini-DIN*	**TSXPACC01** *(box)*
XBTZ9782	
VW3A8306R●0, *RJ45*	**TeSys U**
XBTZ938, *RJ45*	**ATV**
XBTZ9980	**Lexium**
	LU9GC3 *(splitter box)*
	Modicon M340

XBTZ918, *25-way SUB-D*	**TSXSCY2160●**
XBTZ908, *15-way SUB-D*	
VW3A8306, *15-way SUB-D*	**TSXSCA62/64**
	VW3A8306TF10 *(T-junction)*
XBTZ9982	**Modicon M2●●**
XBTZ9980	**Modicon M340**
BMXXCAUSBH018	**Modicon M340/M580**

(1) ● *defines the length:*
- **0**, *2.5 m/8.20 ft (elbowed connector)*
- **1**, *5 m/16.40 ft*
- **6**, *16 m/52.49 ft*
- **7**, *20 m/65.62 ft*
- **8**, *25 m/82.02 ft*

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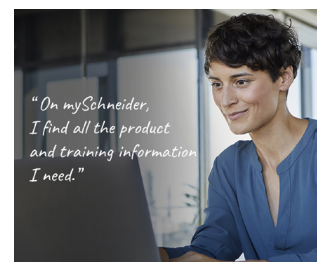### Product information
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