Human/Machine Interfaces
Magelis™ GK Advanced Keypad-Touchscreen Panels

Catalog
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Magelis GK Advanced Keypad-Touchscreen Panels

Magelis GK are ultra-flexible graphic terminals available in both keypad and touchscreen user interface options. They have similar display and communication characteristics to Magelis 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, Magelis 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

Magelis 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 Magelis GK terminal 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 Magelis 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/Air+ enable maintenance staff to identify issues without being physically present at site
Magelis GK (continued)

Easy substitution
Existing Magelis XBTF or XBTGK panels with keypads can easily be replaced with Magelis 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 Magelis 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/Air+ offer is fully compatible with Magelis GK and enables remote access and connectivity anytime, anywhere.
### Applications
- Display of text messages, graphic objects and synoptic views
- Control and configuration of data

### Type of terminal
- Keypad-Touchscreen panels

### Screen
- Type: Color TFT LCD
- Size: 5.7”
- Resolution: QVGA, 320 x 240 pixels, 65 K colors
- Life span: > 50,000 hrs @ 25 °C/77 °F

### Data entry
- Static function keys: 10
- Dynamic function keys: 14
- Service keys: 8
- Alphanumeric keys: 12

### Memory capacity
- Application: 128 MB Flash EPROM
- Expansion: 4 GB SD Card

### Functions
- Maximum number of pages: Limited by capacity of internal Flash EPROM memory or SD card memory
- Variables per page: Unlimited (6000 variables max.)
- Representation of variables: Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, LED
- Recipes: Yes, with log
- Alarm log: Yes
- Real-time clock: Built-in
- Database I/O: –
- Miscellaneous: –

### Communication
- Downloadable protocols: 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)
- USB ports: 2
- Box and networks: Modbus Plus, Fipway with USB gateway
- Printer link: 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)

### Operating system
- Type of terminal: HMI GK Advanced Keypad-Touchscreen Panels
- Page: 11
**Presentation**

The Magelis GK offers a range of keypad-touchscreen terminals (HMIGK) available in 5.7” and 10.4” (color) panel sizes.

**Operation**

The HMIGK terminals can be operated at several function levels. These multifunction Magelis 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 and biometric switch
- Management of peripherals: printers, bar code readers, etc.

**Configuration**

Magelis GK panels can be configured using Vijeo Designer software in a Windows 10 Professional and Windows 7 Professional 32/64-bit environment.

Vijeo Designer software boasts an advanced user interface with many configurable windows, enabling projects to be developed quickly and easily. The Magelis GK range is compatible with Vijeo Designer V6.2 SP4.1 or later. Please refer to the HMI software catalogs available at www.schneider-electric.com.
**Communication**

Magelis 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

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

**Functions**

Magelis 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
- Multithread 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

The Magelis GK range is perfectly integrated in the MachineStruxure™ (1) automation solutions offer, which helps machine manufacturers (OEMs) 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 4.2 allows programming of terminals in the Magelis GK range using Vijeo Designer software.

Magelis GK Panels have been designed for PlantStruxure™ (2) and MachineStruxure™ (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 Magelis Panels to browse HTML pages and send e-mails.

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(1) For more information on the “MachineStruxure™” concept, please refer to our website www.schneider-electric.com/Solutions/Machine control solutions.
(2) For more information on the “PlantStruxure™” concept, please refer to our website www.schneider-electric.com/Solutions/Process and Machine Systems.
(3) For more information on CANopen bus references, please refer to CANopen for machines catalog on our website www.schneider-electric.com.
Panel operating modes
The following illustrations show which equipment can be connected to Magelis GK according to the two operating modes.

Edit mode
Ethernet network

Operating mode
USB port expander

Improve environmental resistance with Conformal Coating
The Conformal Coating service offer consists of varnishing the electronic cards to prolong the service life of the terminals 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.

Magelis Small panels with keypad-touchscreen flexibility
The Magelis 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.

(1) Validated with Hewlett Packard printer via USB/PIO converter.
Human Machine Interfaces
Magelis GK Advanced Keypad-Touchscreen
Panels with 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 terminal 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:
   - Delete character to left of cursor
   - Move cursor to right or left in an entry field
   - Confirm a selection or entry
   - Access the second of the dual key functions
   - Increment or decrement a numeric field value or activate the next or previous object
   - Exit entry mode
   - Display the configuration menu of the terminal
   - Copy the current screen
   - Delete entire field

Rear view

1. A type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal 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 terminal block for 24 V power supply

(1) See page 12 for details of the required connection accessories.
Human Machine Interfaces
Magelis GK Advanced Keypad-Touchscreen Panels with 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 terminal 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** Delete character to left of cursor
   - **<** Move cursor to right or left in an entry field
   - **<=** Confirm a selection or entry
   - **Shift** Access the second of the dual key functions
   - **V** Increment or decrement a numeric field value or activate the next or previous object
   - **ESC** Exit entry mode
   - **Shift +** Display the configuration menu of the terminal
   - **<** Copy the current screen
   - **<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 terminal 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 terminal 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.
# Human Machine Interfaces
## Magelis GK Advanced Keypad-Touchscreen Panels
Keypad-Touchscreen terminals, protection accessories and separate parts

## Keypad-Touchscreen terminals

<table>
<thead>
<tr>
<th>Type of screen</th>
<th>Number of ports</th>
<th>Application memory capacity</th>
<th>SD memory card</th>
<th>Video input</th>
<th>Number of Ethernet ports</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.7” screen</td>
<td>1 COM1</td>
<td>128 MB</td>
<td>Yes</td>
<td>No</td>
<td>1</td>
<td>HMIGK2310</td>
<td>1.800/3.968</td>
</tr>
<tr>
<td></td>
<td>1 COM2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 USB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.4” screen</td>
<td>1 COM1</td>
<td>128 MB</td>
<td>Yes</td>
<td>No</td>
<td>1</td>
<td>HMIGK5310</td>
<td>3.300/7.275</td>
</tr>
<tr>
<td></td>
<td>1 COM2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 USB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Protection accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
<th>Compatible with terminals</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective sheets</td>
<td>Disposable, dirt-resistant sheet for the display</td>
<td>HMIGK2310</td>
<td>XBTZG68</td>
<td>–</td>
</tr>
<tr>
<td>(5 peel-off sheets)</td>
<td></td>
<td>HMIGK5310</td>
<td>XBTZG69</td>
<td>–</td>
</tr>
<tr>
<td>Seals</td>
<td>Provide dust and moisture resistance when this product is installed in a solid panel</td>
<td>HMIGK2310</td>
<td>XBTZG56</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HMIGK5310</td>
<td>XBTZG59</td>
<td>–</td>
</tr>
</tbody>
</table>

## Separate parts

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

## Equivalent product table between XBTGK terminals and HMIGK terminals

<table>
<thead>
<tr>
<th>Old range XBTGK</th>
<th>New range HMIGK</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>XBTGK2120</td>
<td>HMIGK2310</td>
<td></td>
</tr>
<tr>
<td>XBTGK2330</td>
<td>HMIGK2310</td>
<td></td>
</tr>
<tr>
<td>XBTGK5330</td>
<td>HMIGK5310</td>
<td>No auxiliary connector, only one USB port type A</td>
</tr>
</tbody>
</table>

**Note:** When upgrading from Magelis XBTGK range to the Magelis GK range, the following parameters must be taken into account:
- Connection fieldbus Profinet DP and DeviceNet not possible
- COM1 serial ports only support RS232C signal
- No CF card but SD card for optional storage unit
- No CANopen Master 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 terminals.
Cables for connecting Magelis terminals to other Schneider Electric products

<table>
<thead>
<tr>
<th>Automation product type</th>
<th>Type of connector (automation product end)</th>
<th>Protocol</th>
<th>Type of terminal</th>
<th>Link</th>
<th>On port</th>
<th>Length m/ft</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nano, Modicon TSX Micro, Modicon Premium</td>
<td>Terminal port, 6-way female mini-DIN</td>
<td>Uni-TE (V1/V2), Modbus</td>
<td>HMIGK</td>
<td>RS-485</td>
<td>COM2</td>
<td>2.5/8.20</td>
<td>XBTZ9780</td>
<td>0.180/0.397</td>
</tr>
<tr>
<td>Modicon M340, Modicon M2●●</td>
<td>RJ45</td>
<td>Modbus</td>
<td>HMIGK</td>
<td>RS-485</td>
<td>COM2</td>
<td>2.5/8.20</td>
<td>XBTZ9860</td>
<td>0.230/0.507</td>
</tr>
<tr>
<td>Modicon M340</td>
<td>USB Mini-B</td>
<td>Terminal port</td>
<td>HMIGK</td>
<td>USB</td>
<td>type A</td>
<td>1.8/5.91</td>
<td>BMXXCAUSB018</td>
<td>0.230/0.507</td>
</tr>
<tr>
<td>Modicon Quantum</td>
<td>9-way male SUB-D</td>
<td>Modbus</td>
<td>HMIGK</td>
<td>RS-232C</td>
<td>COM1</td>
<td>2.5/8.20</td>
<td>990NAA26320</td>
<td>0.290/0.639</td>
</tr>
<tr>
<td>Modicon STB</td>
<td>HE13 (NIM, network interface module)</td>
<td>Modbus</td>
<td>HMIGK</td>
<td>RS-232C</td>
<td>COM1</td>
<td>2/3/6.56</td>
<td>STBXCA4092</td>
<td>0.210/0.463</td>
</tr>
<tr>
<td>Modicon Momentum M1</td>
<td>RJ45 (port 1 on Momentum M1)</td>
<td>Modbus</td>
<td>HMIGK</td>
<td>RS-485</td>
<td>COM1</td>
<td>2.5/8.20</td>
<td>XBTZ9711 + (4)</td>
<td>0.210/0.463</td>
</tr>
<tr>
<td>TeSys U, T starters, ATV 312/61/71 variable speed drives, ATS 48 starters, Lexium 05, Preventa XPSMC</td>
<td>RJ45</td>
<td>Modbus</td>
<td>HMIGK</td>
<td>RS-485</td>
<td>COM2</td>
<td>2/3/9.84</td>
<td>VW3AB306R30</td>
<td>0.060/0.132</td>
</tr>
</tbody>
</table>

(1) Cable included (depending upon the model) with Vijeo Designer software packages, refer to “HMI Configuration software” catalog available on our website www.schneider-electric.com.
(2) Parallel printer (see page 8).
(3) Male connector with XBTZG9232, female connector with XBTZG485.
(4) XBTZG919 adaptor to be used with cables.
### Cables and adaptors for connecting Magelis terminals to third-party PLCs

<table>
<thead>
<tr>
<th>Description</th>
<th>Driver used</th>
<th>Type of terminal (fitted to cable, excluding adaptor)</th>
<th>Type of connector (fitted to cable, excluding adaptor)</th>
<th>Physical link (COM1)</th>
<th>Length m/ft</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mitsubishi, Melsec PLCs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection cable</td>
<td>HMIGK</td>
<td>9-way SUB-D 9-way SUB-D</td>
<td>RS-232C</td>
<td>5/16.40</td>
<td>XBTZG9772</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q Link (SIO)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection cable</td>
<td>HMIGK</td>
<td>9-way SUB-D mini-DIN</td>
<td>RS-232C</td>
<td>5/16.40</td>
<td>XBTZG9774</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q CPU (SIO)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Link (SIO)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection cable</td>
<td>HMIGK</td>
<td>9-way SUB-D mini-DIN</td>
<td>RS-422</td>
<td>5/16.40</td>
<td>XBTZ9890 +</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FX (CPU)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Omron, Sysmac PLCs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection cables</td>
<td>HMIGK</td>
<td>9-way SUB-D 9-way SUB-D</td>
<td>RS-232C</td>
<td>5/16.40</td>
<td>XBTZG9740</td>
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<td>Link (SIO)</td>
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<td>Connection cables</td>
<td>HMIGK</td>
<td>9-way SUB-D 9-way SUB-D</td>
<td>RS-232C</td>
<td>5/16.40</td>
<td>XBTZG9731</td>
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<td>FINS (SIO)</td>
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<td><strong>Rockwell Automation, Allen-Bradley PLCs</strong></td>
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<td>Connection cables</td>
<td>HMIGK</td>
<td>9-way SUB-D 25-way SUB-D</td>
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<td>5/16.40</td>
<td>XBTZG9731</td>
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<td>DF1 Full Duplex</td>
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<tr>
<td>Connection cables</td>
<td>HMIGK</td>
<td>25-way SUB-D 8-way mini-DIN</td>
<td>RS-485</td>
<td>5/16.40</td>
<td>XBTZ9732 +</td>
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<td>DH485</td>
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<td><strong>Siemens, Simatic PLCs</strong></td>
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<tr>
<td>Connection cable</td>
<td>HMIGK</td>
<td>RJ45/9-way SUB-D</td>
<td>RS-485</td>
<td>2.5/8.20</td>
<td>XBTZG9721</td>
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<td>PPI, S7 200</td>
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<td>Connection cables</td>
<td>HMIGK</td>
<td>9-way SUB-D 9-way SUB-D</td>
<td>RS-232C</td>
<td>3/9.84</td>
<td>XBTZG9292</td>
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<td>MPI port, S7 300/400</td>
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Presentation: page 6  
Description: page 9  
Connections: page 15
**Human Machine Interfaces**

**Magelis GK Advanced Keypad-Touchscreen Panels**

**Connection accessories**

### Connection of Magelis terminals via serial links and Ethernet network

<table>
<thead>
<tr>
<th>Type of bus/network</th>
<th>Tap-off units</th>
<th>Connector (tap-off unit side)</th>
<th>Type of terminal</th>
<th>Length m/ft</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uni-Telway serial link</td>
<td>Subscriber socket</td>
<td>15-way female SUB-D</td>
<td>HMIGK (COM2)</td>
<td>3/9.84</td>
<td>VW3A8306</td>
<td>0.150/0.330</td>
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<td></td>
<td>Connection box</td>
<td>8-way female mini-DIN</td>
<td>HMIGK (COM2)</td>
<td>2.5/8.20</td>
<td>XBTZ9780</td>
<td>0.180/0.397</td>
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<tr>
<td>Modbus serial link</td>
<td>Subscriber socket</td>
<td>15-way female SUB-D</td>
<td>HMIGK (COM2)</td>
<td>3/9.84</td>
<td>VW3A8306</td>
<td>0.150/0.330</td>
</tr>
<tr>
<td></td>
<td>8-port Modbus splitter box</td>
<td>RJ45</td>
<td>HMIGK (COM2)</td>
<td>2.5/8.20</td>
<td>XBTZ9980</td>
<td>–</td>
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<tr>
<td></td>
<td>2-port tap-off junction</td>
<td>With integrated cable, RJ45</td>
<td>HMIGK (COM2)</td>
<td>–</td>
<td>VW3A8306TF10</td>
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</table>

### Connection of Magelis terminals to fieldbuses

<table>
<thead>
<tr>
<th>Type of bus/network</th>
<th>Connection components</th>
<th>Type of terminal</th>
<th>Reference</th>
<th>Weight kg/lb</th>
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</thead>
<tbody>
<tr>
<td>Fipway, Fipio USB gateway</td>
<td>HMIGK</td>
<td>TSXCUSBFIP</td>
<td>–</td>
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<tr>
<td>Modbus Plus USB gateway</td>
<td>HMIGK</td>
<td>XBTZGUMP</td>
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</table>

### Modular regulated switch mode power supplies (1)

<table>
<thead>
<tr>
<th>Input voltage/Output voltage</th>
<th>Combination with terminals</th>
<th>Nominal power</th>
<th>Nominal current</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>100…240/24 V single-phase wide range line supply 47…63 Hz</td>
<td>HMIGK</td>
<td>30 W</td>
<td>1.2 A</td>
<td>ABL8MEM24012</td>
<td>0.195/0.430</td>
</tr>
</tbody>
</table>

(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.schneider-electric.com.
Human Machine Interfaces
Magelis GK Advanced Keypad-Touchscreen Panels
Connection system

HMIGK terminals and Schneider Electric products

<table>
<thead>
<tr>
<th>XBTZG919</th>
<th>990NA26320, 9-way SUB-D</th>
<th>Modicon Quantum</th>
</tr>
</thead>
<tbody>
<tr>
<td>XBTZ9710</td>
<td>9-way SUB-D</td>
<td>Momentum M1</td>
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<tr>
<td>XBTZ9711</td>
<td>RJ45</td>
<td>Modicon STB</td>
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<tr>
<td>XBTZ988</td>
<td>HE 13</td>
<td>Modicon M340</td>
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<tr>
<td>STBXC4002</td>
<td>HE 13</td>
<td></td>
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<tr>
<td>TSXPCX1031</td>
<td>min-DIN</td>
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<tr>
<td>XBTZG232</td>
<td>if with isolation</td>
<td></td>
</tr>
<tr>
<td>COM1 port</td>
<td>9-way SUB-D</td>
<td></td>
</tr>
<tr>
<td>COM2 port</td>
<td>RJ45</td>
<td></td>
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<tr>
<td>USB type A</td>
<td>RJ45</td>
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<tr>
<td>RS 232C</td>
<td>RJ45</td>
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<tr>
<td>MW3A8306R</td>
<td>RJ45</td>
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<tr>
<td>XBTZ980</td>
<td>RJ45</td>
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<tr>
<td>VW3A8306T</td>
<td>RJ45</td>
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<tr>
<td>TSXSCY2160</td>
<td>15-way SUB-D</td>
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<tr>
<td>TSXSCA62/64</td>
<td>15-way SUB-D</td>
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<tr>
<td>VW3A8306TF</td>
<td>(T-junction)</td>
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<tr>
<td>BMXXCUSBH018</td>
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</table>

(1) defines the length:
- 0, 2.5 m/8.20 ft (elbowed connector)
- 1, 5 m/16.40 ft
- 2, 16 m/52.49 ft
- 3, 20 m/65.62 ft
- 4, 25 m/82.02 ft
## Product reference index

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>#</td>
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| 490NTW00002 |  14 | XBTZG9292  
| 490NTW00005 |  14 | XBTZG9721  
| 490NTW00012 |  14 | XBTZG9731  
| 490NTW00040 |  14 | XBTZG9740  
| 490NTW00080 |  14 | XBTZG9772  
| 990NAA26320  |  12 | XBTZG9774  
| A |   |   |
| ABL8MEM24012 |  14 | XBTZG9722  
| B |   |   |
| BMXCAUSBH018  |  12 | XBTZG9774  
| BMXCAUSBH045  |  12 | XBTZG9774  
| H |   |   |
| HMIGK2310   |  11 | XBTZG9722  
| HMIGK5310   |  11 | XBTZG9722  
| HMIZGCLP1   |  11 | XBTZG9722  
| HMIZGPWS    |  11 | XBTZG9722  
| HMIZSCLP3   |  11 | XBTZG9722  
| HMIZSD4G    |  11 | XBTZG9722  
| HMIZSUSBB   |  11 | XBTZG9722  
| HMIZURS     |  12 | XBTZG9722  
| S |   |   |
| STBXCA4002   |  12 | XBTZG9722  
| T |   |   |
| TSXCUSBFIP  |  14 | XBTZG9722  
| V |   |   |
| VW3A8306    |  14 | XBTZG9722  
| VW3A8306R30 |  12 | XBTZG9722  
| VW3A8306TF10 |  14 | XBTZG9722  
| X |   |   |
| XBLYGK2     |  11 | XBTZG9722  
| XBLYGK5     |  11 | XBTZG9722  
| XBTZ915     |  12 | XBTZG9722  
| XBTZ980     |  13 | XBTZG9722  
| XBTZ988     |  12 | XBTZG9722  
| XBTZ30002   |  11 | XBTZG9722  
| XBTZ9710    |  12 | XBTZG9722  
| XBTZ9711    |  12 | XBTZG9722  
| XBTZ9732    |  13 | XBTZG9722  
| XBTZ9G39    |  13 | XBTZG9722  
| XBTZ9780    |  12 | XBTZG9722  
| XBTZ9782    |  12 | XBTZG9722  
| XBTZ9980    |  12 | XBTZG9722  
| XBTZ9982    |  12 | XBTZG9722  
| XBTZG58     |  11 | XBTZG9722  
| XBTZG59     |  11 | XBTZG9722  
| XBTZG68     |  11 | XBTZG9722  
| XBTZG69     |  11 | XBTZG9722  
| XBTZG919    |  12 | XBTZG9722  

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The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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