Human/Machine Interfaces
Magelis™ SCU Small HMI controllers

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Magelis™ SCU Small HMI controllers

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### HMI controllers

**Magelis SCU Small HMI controllers, Magelis XBTGC HMI controllers, Magelis XBTGT, XBTGK Standard Advanced panels + control function**

#### Applications
- Display of text messages, graphic objects and mimics, control and configuration of data
- IEC 1131-2 control function

#### I/O controls
- Small HMI controllers
  - For control of simple machine
  - For control of simple process

#### Display
- **Type**: Color TFT LCD
- **Capacity**:
  - 3.5" (65K colors)
  - 5.7" (65K colors)
  - 3.9" (65K colors)
  - 5.7" (65K colors)

#### Data entry
- **Static function keys**:
  - –
- **Dynamic function keys**:
  - –
- **Service keys**:
  - –
- **Alphanumeric keys**:
  - –

#### Memory capacity
- **Application**:
  - 128 MB Flash EPROM
- **Expansion**:
  - –

#### Functions
- **Maximum number of pages and maximum number of instructions**:
  - Limited by internal Flash EPROM memory capacity
- **Variables per page**:
  - Unlimited (8000 variables max.)
- **Programmable logic**:
  - 5 languages according to IEC 1131-2 (LD, ST, FBD, SFC, IL)
- **Counting/positioning**:
  - 2 x 100 KHz high speed counter inputs/2 x 50 KHz pulse train output
- **Counter (PSD)**:
  - Yes
- **Representation of variables**:
  - Alphanumeric, bitmap, bargraph, gauge, tank, tank level indicator, curves, polygon, button, light
- **Recipes**:
  - 32 groups of 64 recipes comprising 1024 ingredients max.
  - Yes, with log
- **Alarms type**:
  - Yes
- **Real-time clock**:
  - Built-in

#### I/O
- **Integration**:
  - 14 x 24 VDC digital inputs
  - 2 high-speed counter (HSC) inputs
  - 6 digital relay outputs
  - 2 pulse train source transistor outputs

#### Communication
- **Modbus, Modbus TCP/IP**:
  - 1
- **Communication interfaces**:
  - RS-232CRS (COM1)
  - RS-232CRS (COM1)
  - 1/4 1/5/63/73 + XBTZGCANM

#### Design software
- **SolMachine on Windows XP Professional and Windows 7 Professional 32/64-bit**
  - (please refer to our website www.schneider-electric.com)

#### Operating system
- **SolMachine on Windows XP Professional and Windows 7 Professional 34364/764-bit**
  - (please refer to our website www.schneider-electric.com)

#### Terminal type
- **Type**:
  - XBTGC2330U
  - XBTGC2330T
  - XBTGC2330U
  - XBTGC2330T
- **Display**:
  - 3.5" (65K colors)
  - 5.7" (65K colors)
- **I/O modular expansion**:
  - –
- **Printer link**:
  - USB port for parallel printer

#### More technical information on www.schneider-electric.com
Presentation

The ultra-compact range of Magelis™ SCU Small HMI controllers are part of Schneider Electric’s Flexible Machine Control concept, a key element in MachineStruxure™.

The Magelis SCU HMI controllers offer brings together Human Machine Interface and control functions within in a single product. This reduces the amount of equipment required and the associated costs throughout the life cycle of the machine.

The Magelis SCU Small HMI controllers integrate, as standard, all their functions. They benefit, in particular, from the same innovation as the Magelis STU Small panels range: Mounting via a 22 mm diameter hole (pushbutton type) which considerably simplifies installation (see page 8).

Of modular design, this range comprises:
- 2 complete Magelis SCU products for the control of simple machines, comprising:
  - A 3.5” or 5.7” 65 k color TFT Screen module
  - A Controller module with 16 integrated digital inputs/10 integrated digital outputs
- 2 complete Magelis SCU products for the control of simple processes, comprising:
  - A 3.5” or 5.7” 65 k color TFT Screen module
  - A Controller module with 8 integrated digital inputs/8 integrated digital outputs and 4 integrated analog inputs/2 integrated analog outputs

The Screen modules and Controller modules (for simple machines or processes) are also available separately as replacement parts. Magelis SCU Small HMI controllers operate with the same Screen modules as Magelis STU Small panels, which simplifies upgrading of an installation (only the rear module needs to be replaced). A wide choice of communication interfaces is also integrated: USB port, serial link, Ethernet and CANopen.

Operation

With their fast multitasking processors, the HMI controllers combine HMI and control functions and share the same screen and communication features and dimensions. The internal memory can be freely used by both the HMI function and the control function.

Processing is split 75% on the HMI part and 25% on the control part. The processing can be configured for 3 tasks, including 1 master task.
Configuration

Magelis SCU Small HMI controllers are configured using Schneider Electric’s unique machine automation software, SoMachine. This software, combining both HMI and control functions, is based on Vijeo Designer software (2) running on Windows XP Professional or Windows 7 Professional 32/64-bit.

SoMachine software (2) boasts an advanced user interface with many configurable windows, enabling unique projects to be developed quickly and easily.

Communication

Examples of communication architectures

Depending on the model, the Magelis HMI panels communicate with automation devices through 1 or 2 integrated serial links using the following communication protocols:

- **Magelis SCU Small HMI controllers**
  - Schneider Electric Modbus protocol managed by Control part
  - Schneider Electric (Uni-TE, Modbus) protocols managed by HMI part
  - Third-party protocols (Mitsubishi Electric, Omron, Allen-Bradley and Siemens) managed by HMI part

- **Magelis XBTGC HMI controllers and XBTGT/GK Standard Advanced panels**
  - Schneider Electric (Uni-TE, Modbus) protocols managed by HMI part
  - Third-party protocols (Mitsubishi Electric, Omron, Allen-Bradley and Siemens) managed by HMI part

Depending on the model, they can be connected to Ethernet TCP/IP networks with the Modbus TCP protocol or a third-party protocol managed by HMI part, and can be used as the CANopen master to control all the peripherals which can be connected on this bus.

In addition, on Magelis SCU, the Modbus TCP Slave protocol is supported by Control part with Ethernet network.

(1) With XBTZGCAN CANopen master module.
(2) For more information on Vijeo Designer software and SoMachine software, please refer to our website www.schneider-electric.com.
Magelis SCU Small HMI controllers are part of Schneider Electric’s Flexible Machine Control concept, a key element in MachineStruxure.

Magelis SCU Small HMI controllers offer the following HMI 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, modification of numeric and alphanumeric values
- Display of current time and date
- Real-time curves and trend curves with log
- Alarm display, alarm log and management of alarm groups
- Multindow management
- Page calls initiated by the operator
- Multilingual application management (10 languages simultaneously)
- Recipe management
- Data processing via Java script
- Application support and USB key external memory logs
- Management of serial printers, barcode readers

Magelis SCU Small HMI controllers have been designed for Transparent Ready architectures and equipment (combination of Web and Ethernet TCP/IP technologies).

With the WebGate function, it is possible to control or carry out maintenance remotely.

Eventually, Magelis SCU will enable a smartphone or a PC tablet to be remotely connected to the HMI application.

Magelis SCU Small HMI controllers offer the following HMI functions:
- Execution of programmed logic sequences with the five IEC 1131-2 languages (LD, ST, FBD, SFC,IL)
- Management of equipment on the CANopen fieldbus

In addition to the aforementioned functions, Magelis SCU Small HMI controllers enable management of:
- Integrated digital I/O
- Integrated analog I/O: Voltage, current and temperature (thermocouple, PT100, PT1000)
- 2 high speed counter (HSC) inputs, 100 kHz 1 channel or 50 kHz 2 channel
- 2 pulse train fast outputs, PTO/PWM 50 kHz
HMI controllers
Magelis SCU Small HMI controllers

Operating modes for the terminals

The following illustrations show the equipment that can be connected to Magelis SCU and XBTGC controllers as well as to Magelis XBTGT/GK Advanced panels according to their two operating modes.

Edit mode

Ethernet (1)

- XBTGC or XBTGT/GK + XBTZGCANM
- Connection cable XBTZG935
- PC with SoMachine software
- USB memory stick
- HMI SCU

Transfer cable BMXXCAUSBH018

Run mode

Ethernet

- USB port duplicator
- USB memory stick
- USB memory stick
- Mouse
- Keyboard
- Parallel printer (1)
- USB
- COM1
- Twido
- HMI SCU
- CANopen
- Lexium 32
- ATV 32
- OTS

(1) Should be a Hewlett Packard printer via a USB/PIO converter.
Magelis SCU Small HMI controllers
Magelis SCU Small HMI controllers for control of simple machines

**Description**

**Magelis HMISCU A5 Small HMI controllers**

**Front Panel**
Magelis SCU Small HMI controllers for control of simple machines have the following on the front panel:
1. A 3.5” touch screen for displaying mimics (color TFT LCD) or
2. A 5.7” touch screen for displaying mimics (color TFT LCD)

**Upper rear panel**
The upper rear panel has the following:
3. Four removable terminal blocks for 16 digital inputs including 2 high speed counter (HSC) inputs (100 kHz 1 channel or 50 kHz 2 channel), 8 digital relay outputs and 2 source transistor outputs (PTO/PWM 50 kHz or 20 kHz pulse train if HSC used)

**Lower rear panel**
The lower rear panel has the following:
4. A USB mini-B device connector for application transfer (on left-hand side of panel)
5. A removable screw terminal block for 24 V power supply
6. A 9-way SUB-D connector for CANopen link, fitted with an LED for signalling power supply and system operation status
7. An RJ45 connector for Ethernet TCP/IP, 10BASE-T/100BASE-TX link
8. A Type A USB master connector for:
   - Connection of a peripheral device
   - Connection of a USB memory stick
   - Application transfer
9. An RJ45 male connector for RS-232C or RS-485 serial link connection to PLCs (COM1)

**Fixing system**
Magelis SCU Small HMI controllers consist of a front module (comprising the screen) and a rear module (comprising the CPU plus terminals and connectors). The two modules are fixed together via a hole measuring 22 mm in diameter.

The fixing system contains the following elements:
10. A fixing nut
11. A seal
12. An anti-rotation tee (can be used as an option)
13. A release mechanism: Simply press to separate the two modules once they have been fixed together

This system is included with the complete products (see page 11).

*Note:* The 2 modules can also be mounted separately: Using a remote connection cable enables the rear module and the front module to be separated and the Controller module mounted on DIN rail (see page 11).
**HMI controllers**

**Magelis SCU Small HMI controllers**
Magelis SCU Small HMI controllers for control of simple processes

### Description

#### Magelis HMISCU•B5 Small HMI controllers

**Front panel**

Magelis SCU Small HMI controllers for control of simple processes have the following on the front panel:

1. A 3.5” touch screen for displaying mimics (color TFT LCD)
2. A 5.7” touch screen for displaying mimics (color TFT LCD)

**Upper rear panel**

The upper rear panel has the following:

3. Four removable terminal blocks for 8 digital inputs including 2 fast HSC inputs (100 KHz 1 channel or 50 kHz 2 channel), 6 digital relay outputs, 2 transistor source outputs (PTO/PWM 50 kHz or 20 kHz pulse train if HSC used), 2 analog inputs (voltage, current), 2 temperature inputs (Thermocouple, PT100, PT1000) and 2 analog outputs (voltage, current)

**Lower rear panel**

The lower rear panel has the following:

4. A USB mini-B device connector for application transfer (on left-hand side of panel)
5. A removable screw terminal block for 24 V power supply
6. A 9-way SUB-D connector for CANopen link, fitted with an LED for signalling power supply and system operation status
7. An RJ45 connector for Ethernet TCP/IP, 10BASE-T/100BASE-TX link
8. A Type A USB master connector for:
   - Connection of a peripheral device
   - Connection of a USB memory stick
   - Application transfer
9. An RJ45 male connector for RS-232C or RS-485 serial link connection to PLCs (COM1)

### Fixing system

Magelis HMI SCU Small HMI controllers consist of a front module (comprising the screen) and a rear module (comprising the CPU plus terminals and connectors), The two modules are fixed together via a hole measuring 22 mm in diameter.

The fixing system contains the following elements:

10. A fixing nut
11. A seal
12. An anti-rotation tee (can be used as an option)
13. A release mechanism: Simply press to separate the two modules once they have been fixed together

This system is included with the complete products (see page 11).

**Note:** The 2 modules can also be mounted separately: Using a remote connection cable enables the rear module and the front module to be separated and the Controller module mounted on DIN rail (see page 11).
**Presentation**

Magelis SCU Small HMI controllers integrate the CANopen bus master function. SoMachine software is used to configure the CANopen machine bus (1) for the Magelis SCU Small HMI controllers (1).

**Example architecture**

The above configuration shows an example architecture based on the Magelis SCU Small HMI controllers which provide the CANopen bus master function. The CANopen bus is made up of a master station, a Magelis SCU Small HMI Controller and slave stations. The master is responsible for the configuration, exchanges and diagnostics to the slaves.

The various services offered are:
- One or more profiles are supplied for Schneider Electric slaves such as ATV 312/61/71 variable speed drives and Lexium 32 servo drives. This makes it possible to configure the slave according to a predefined mode. Profiles provide the user with a defined operating mode so there is no need to check how the mode is configured.
- For third-party slaves:
  - The user can choose from a list which can be modified. This simply involves importing an EDS-type (Electronic Data Sheet) description file.
  - The slave can be positioned on the bus: The slave number, speed, monitoring, etc. can be defined.
  - The user can select variables from the list of variables managed by the slave.
  - A link between variables and the data exchanged.
  - Symbolization of data exchanged.

The CANopen bus is used to manage various slaves such as:
- Digital and analog slaves
- Variable speed drives, motor starters, etc.

(1) For more information on SoMachine software and CANopen bus, please refer to our website www.schneider-electric.com.
## Magelis HMISCU•A5 Small HMI controllers for control of simple machines (1)

<table>
<thead>
<tr>
<th>Type of screen</th>
<th>No. of ports</th>
<th>Application memory capacity</th>
<th>Compact Flash memory</th>
<th>Integrated I/O</th>
<th>No. of Ethernet ports</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5” QVGA color TFT</td>
<td>2 USB 1 COM1 1 CANopen</td>
<td>128 MB</td>
<td>No</td>
<td>16 digital I/ 10 digital O</td>
<td>1</td>
<td>HMISCU6A5</td>
<td>0.512/1.129</td>
</tr>
<tr>
<td>5.7” QVGA color TFT</td>
<td>2 USB 1 COM1 1 CANopen</td>
<td>128 MB</td>
<td>No</td>
<td>16 digital I/ 10 digital O</td>
<td>1</td>
<td>HMISCU8A5</td>
<td>0.764/1.684</td>
</tr>
</tbody>
</table>

## Magelis HMISCU•B5 Small HMI controllers for control of simple processes (1)

<table>
<thead>
<tr>
<th>Type of screen</th>
<th>No. of ports</th>
<th>Application memory capacity</th>
<th>Compact Flash memory</th>
<th>Integrated I/O</th>
<th>No. of Ethernet ports</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5” QVGA color TFT</td>
<td>2 USB 1 COM1 1 CANopen</td>
<td>128 MB</td>
<td>No</td>
<td>8 digital I/8 digital O 4 analog I/ 2 analog O</td>
<td>1</td>
<td>HMISCU6B5</td>
<td>0.551/1.215</td>
</tr>
<tr>
<td>5.7” QVGA color TFT</td>
<td>2 USB 1 COM1 1 CANopen</td>
<td>128 MB</td>
<td>No</td>
<td>8 digital I/8 digital O 4 analog I/ 2 analog O</td>
<td>1</td>
<td>HMISCU8B5</td>
<td>0.803/1.770</td>
</tr>
</tbody>
</table>

(1) Mounting system for Ø 22 mm hole, power supply and I/O connectors, locking device for USB connector and instruction sheet included with terminals. The setup documentation for Magelis SCU Small controllers is supplied in electronic format with the SoMachine software (please refer to our website www.schneider-electric.com.).
<table>
<thead>
<tr>
<th>Separate parts</th>
<th>Compatibility</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective sheets</td>
<td>HMISCUBE</td>
<td>HMIS61</td>
<td>–</td>
</tr>
<tr>
<td>(5 peel-off sheets)</td>
<td>HMISCUBB</td>
<td>HMIS62</td>
<td>–</td>
</tr>
<tr>
<td>Designation</td>
<td>Description</td>
<td>Length m/ft</td>
<td>Reference</td>
</tr>
<tr>
<td>Remote USB port location for type A terminal</td>
<td>Enables the USB port to be located remotely on the rear of the HMI terminal on a panel or cabinet door (Ø 21 mm fixing device)</td>
<td>1.0/3.28</td>
<td>XBTZGUSB</td>
</tr>
<tr>
<td>Remote USB port location for mini type B terminal</td>
<td>–</td>
<td>–</td>
<td>HMIZSURBB</td>
</tr>
<tr>
<td>Remote Controller module connection cable</td>
<td>Enables separate mounting of the Controller module and Screen module on DIN rail (for example, inside an enclosure)</td>
<td>3.0/9.84</td>
<td>HMISURDP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5.0/16.40</td>
<td>HMISURDP5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10/32.81</td>
<td>HMISURDP10</td>
</tr>
<tr>
<td>Cable for transferring application to PC</td>
<td>USB type connector</td>
<td>1.8/5.90</td>
<td>BMXXCAUSBH018</td>
</tr>
<tr>
<td>Accessories kit</td>
<td>Contains:</td>
<td></td>
<td>HMIZSUKIT</td>
</tr>
<tr>
<td>(compatible with all Magelis SCU Small controllers)</td>
<td>■ An anti-rotation tee</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>■ A USB A type clip</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>■ A USB mini-B type clip</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>■ An adaptor panel for mounting on an enclosure of 1 mm in thickness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replacement parts</td>
<td>For use with</td>
<td>Reference</td>
<td>Weight kg/lb</td>
</tr>
<tr>
<td>Direct I/O connector</td>
<td>All Magelis SCU Small controllers</td>
<td>HMISDIO</td>
<td>–</td>
</tr>
<tr>
<td>3.5” Screen module</td>
<td>Controller modules HMISAC and HMISBC</td>
<td>HMIS65</td>
<td>0.153/0.337</td>
</tr>
<tr>
<td>5.7” Screen module</td>
<td>Controller modules HMISAC and HMISBC</td>
<td>HMIS85</td>
<td>0.405/0.893</td>
</tr>
<tr>
<td>Simple machine Controller module</td>
<td>Screen modules HMIS65 (3.5”) and HMIS85 (5.7”)</td>
<td>HMISAC</td>
<td>0.359/0.791</td>
</tr>
<tr>
<td>Simple process Controller module</td>
<td>Screen modules HMIS65 (3.5”) and HMIS85 (5.7”)</td>
<td>HMISBC</td>
<td>0.398/0.877</td>
</tr>
<tr>
<td>Fixing nuts</td>
<td>Set of 10 Ø 22 mm nuts (the front module of the SCU Small controller is fixed on the enclosure using a Ø 22 mm nut, see page 8)</td>
<td>ZB5AZ901</td>
<td>–</td>
</tr>
<tr>
<td>Tightening tool</td>
<td>For tightening fixing nut</td>
<td>ZB5AZ905</td>
<td>–</td>
</tr>
</tbody>
</table>
Equivalent product table between XBTGC terminals and HMISCU terminals

While upgrading Magelis XBTGC range to Magelis SCU range, the following parameters must be considered:

- Magelis SCU has the same USB Host interface of Magelis XBTGC with a second USB device mini-B port.
- CANopen Master managing 16 slaves via an external module on XBTGC is now embedded directly on Magelis SCU with same connector SubD9.
- One serial port and Ethernet port are directly available on Magelis SCU.
- Magelis SCU supports more application memory (128 MB) compared to XBTGC (16 MB).
- Magelis SCU has less backup memory (128 KB) compared to XBTGC (512 KB).
- Magelis SCU and XBTGC have same inputs. Outputs on Magelis SCU are based on relays (except 2 with transistors) when compared to XBTGC with only transistor outputs.
- Magelis SCU doesn't support TM2 modules directly. To keep these TM2 modules on Magelis SCU, an OTB block on CANopen can be used.
- Magelis XBTGC supports four inputs for HSC 100 KHz and Magelis HMISCU supports only two inputs for HSC 100 KHz.
- Magelis XBTGC supports four inputs for PTO 65 KHz and Magelis HMISCU supports only two inputs for PTO 50 KHz.

<table>
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<tr>
<th>Old Magelis XBTGC HMI controllers (1)</th>
<th>Replaced by Magelis SCU Small HMI controllers</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Description</td>
<td>Reference</td>
</tr>
<tr>
<td>3.8” STN screen, amber or red</td>
<td>3.5” QVGA color</td>
<td>XBTGC1100T</td>
</tr>
<tr>
<td></td>
<td>TFT</td>
<td>XBTGC1100U</td>
</tr>
<tr>
<td>5.7” STN screen, black and white mode</td>
<td>5.7” QVGA color</td>
<td>XBTGC2120T</td>
</tr>
<tr>
<td></td>
<td>TFT</td>
<td>XBTGC2120U</td>
</tr>
</tbody>
</table>

(1) XBTGC2330 must be used if HSC and PTO cannot be converted to HMISCU or if TM2 modules need to be supported directly.
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<td>BMXXCAUSBH018</td>
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<td>HMIS65</td>
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<td>HMIS85</td>
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<td>HMISAC</td>
<td></td>
</tr>
<tr>
<td>HMISBC</td>
<td></td>
</tr>
<tr>
<td>HMISCU6A5</td>
<td></td>
</tr>
<tr>
<td>HMISCU6B5</td>
<td></td>
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<tr>
<td>HMISCU8A5</td>
<td></td>
</tr>
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<td>HMISCU8B5</td>
<td></td>
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<td>HMIZS61</td>
<td></td>
</tr>
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<td>HMIZS62</td>
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<td>HMIZSDIO</td>
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<tr>
<td>XBTZGUSB</td>
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