



Harmony SCU

HMI controllers for simple machines
with up to 16 Is/10 Os including
Ø 22 mm mounting system



Harmony

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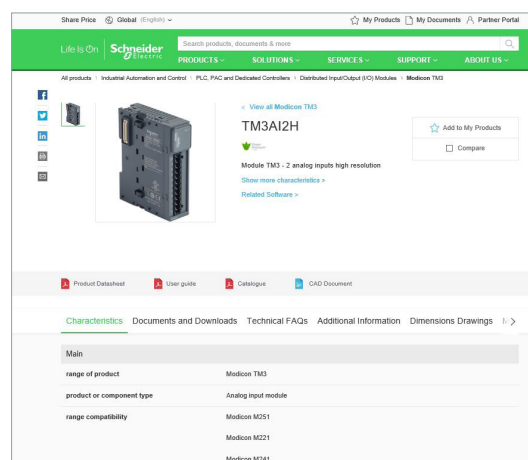
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References

Modicon TM3
I/O expansion modules for Modicon controllers
Analog I/O modules

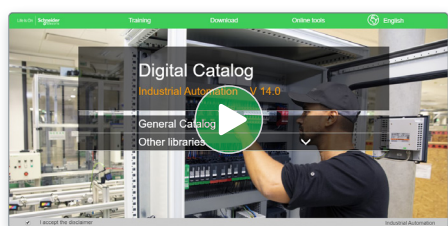
References	Modicon TM3 analog input modules	number and type of channels	Output range	Resolution	Input terminal block (V)	Reference	Weight (kg)
TM3AI2H	2 voltage/current inputs	-10...+10 VDC 0...+10 VDC 0...20 mA A, 20 mA	10 000 cr	0.001%	TM3AI2H	0.150	
			10 000 cr	0.001%	TM3AI2H	0.150	
TM3AI4H	4 voltage/current inputs	-10...+10 VDC 0...+10 VDC 0...20 mA A, 20 mA	12 000 cr	0.001%	TM3AI4H	0.200	
			11 000 cr	0.001%	TM3AI4H	0.200	
TM3AI8H	8 voltage/current inputs	-10...+10 VDC 0...+10 VDC 0...20 mA A, 20 mA	16 000 cr	0.001%	TM3AI8H	0.250	
			15 000 cr	0.001%	TM3AI8H	0.250	
TM3AI16H	16 temperature inputs (I, II, K, R, S, T, N, E, C), 4 temperature inputs (RTD: Pt100, Ni100, Pt100, Pt1000), 4 I/O inputs 0...+10 VDC 0...20 mA A, 20 mA	-10...+10 VDC 0...+10 VDC 0...20 mA A, 20 mA	16 000 cr	0.001%	TM3AI16H	0.300	
			15 000 cr	0.001%	TM3AI16H	0.300	
TM3AI32H	32 temperature inputs (I, II, K, R, S, T, N, E, C), 8 temperature inputs (RTD: Pt100, Ni100, Pt100, Pt1000), 8 I/O inputs 0...+10 VDC 0...20 mA A, 20 mA	-10...+10 VDC 0...+10 VDC 0...20 mA A, 20 mA	16 000 cr	0.001%	TM3AI32H	0.350	
			15 000 cr	0.001%	TM3AI32H	0.350	
TM3AI64H	64 temperature inputs (I, II, K, R, S, T, N, E, C), 16 temperature inputs (RTD: Pt100, Ni100, Pt100, Pt1000), 16 I/O inputs 0...+10 VDC 0...20 mA A, 20 mA	-10...+10 VDC 0...+10 VDC 0...20 mA A, 20 mA	16 000 cr	0.001%	TM3AI64H	0.400	
			15 000 cr	0.001%	TM3AI64H	0.400	



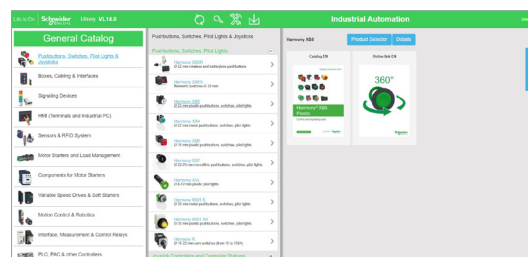
Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

- Characteristics, Dimensions and drawings, Mounting and clearance, Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual

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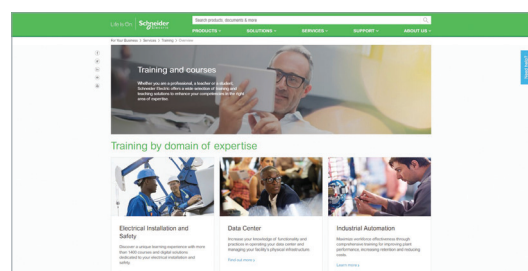


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Harmony SCU

HMI controllers

Applications	Display of text messages, graphic objects and mimics, control and configuration of data	
	IEC 1131-2 control function	
Panel type	HMI controllers	
	For control of simple machine	
	 	
Display	Type	Color TFT LCD
	Capacity	3.5" (65K colors) 5.7" (65K colors)
Data entry		Via touch screen
	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.)
	Programmed 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 outputs
	Control (PID)	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.
	Curves	Yes, with log
	Alarm logs	Yes
	Real-time clock	Built-in
I/O	Integrated	<input type="checkbox"/> 14 x 24 V --- digital inputs <input type="checkbox"/> 2 high speed counter (HSC) inputs <input type="checkbox"/> 8 digital relay outputs <input type="checkbox"/> 2 pulse train source transistor outputs
	I/O modular expansion	–
Communication	Downloadable protocols	Modbus, Modbus TCP/IP
	Asynchronous serial link	RS-232C/RS-485 (COM1)
	USB ports	1 Host type A + 1 Device type mini-B
	Buses and networks	1 CANopen client
	Printer link	Ethernet TCP/IP (10BASE-T/100BASE-TX) USB port for parallel printer
Design software		EcoStruxure Machine Expert on Microsoft Windows® 7 Pro 32-bit/64-bit, Windows 8.1 Pro 32-bit/64-bit, and Windows 10 Pro 32-bit/64-bit (2)
Operating system		Harmony (333 MHz RISC CPU)
Panel type	HMISCU6A5	HMISCU8A5
Pages	11	

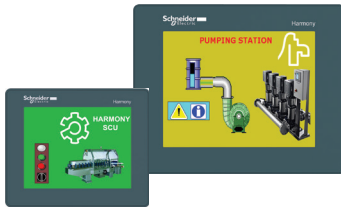
(1) Depending on model.
 (2) For more information, refer to EcoStruxure Machine Expert catalog [DIA3ED2180701EN](#).
 (3) For more information, refer to SoMachine catalog [DIA3ED2140110EN](#).

Applications	Display of text messages, graphic objects and mimics, control and configuration of data	
	IEC 1131-2 control function	
Panel type	HMI controllers	
	For control of simple process	
	 	
Display	Type	Color TFT LCD
	Capacity	3.5" (65K colors) 5.7" (65K colors)
Data entry		Via touch screen
	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.)
	Programmed 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 outputs
	Control (PID)	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.
	Curves	Yes, with log
	Alarm logs	Yes
	Real-time clock	Built-in
I/O	Integrated	<input type="checkbox"/> 6 x 24 V --- digital inputs <input type="checkbox"/> 2 high speed counter (HSC) inputs <input type="checkbox"/> 6 digital relay outputs <input type="checkbox"/> 2 pulse train source transistor outputs <input type="checkbox"/> 2 x 13-bit analog inputs (Voltage/current) <input type="checkbox"/> 2 x 16-bit analogue temperature inputs (TC/PT100-1000) <input type="checkbox"/> 2 x 12-bit analog outputs (Voltage/current)
	I/O modular expansion	–
Communication	Downloadable protocols	Modbus, Modbus TCP/IP
	Asynchronous serial link	RS-232C/RS-485 (COM1)
	USB ports	1 Host type A + 1 Device type mini-B
	Buses and networks	1 CANopen client
	Printer link	Ethernet TCP/IP (10BASE-T/100BASE-TX) USB port for parallel printer
Design software		EcoStruxure Machine Expert on Microsoft Windows® 7 Pro 32-bit/64-bit, Windows 8.1 Pro 32-bit/64-bit, and Windows 10 Pro 32-bit/64-bit (2)
Operating system		Harmony (333 MHz RISC CPU)
Panel type	HMISCU6B5	HMISCU8B5
Pages	11	

(1) Depending on model.
 (2) For more information, refer to EcoStruxure Machine Expert catalog [DIA3ED2180701EN](#).
 (3) For more information, refer to SoMachine catalog [DIA3ED2140110EN](#).

Harmony SCU

HMI controllers for simple machines with up to 16 Is/10 Os



Harmony SCU

Presentation

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

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

The Harmony SCU integrate, as standard, all their functions. They benefit, in particular, from the same innovation as the Harmony STU panels range: Mounting via a 22 mm diameter hole (pushbutton type) which considerably simplifies installation (see [page 6](#)).

Of modular design, this range comprises:

- 2 complete Harmony 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 Harmony 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. Harmony SCU operate with the same screen modules as Harmony STU 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 primary task.

Green product

Harmony SCU is a Green Premium product designed to provide full transparency on environmental impact:

- Transparent environment information
- Complaint to RoHS and REACH
- Life cycle analysis, compliant with ISO14025
- Circular instructions



Harmony SCU

HMI controllers for simple machines with up to 16 Is/10 Os



SoMachine



EcoStruxure Machine Expert



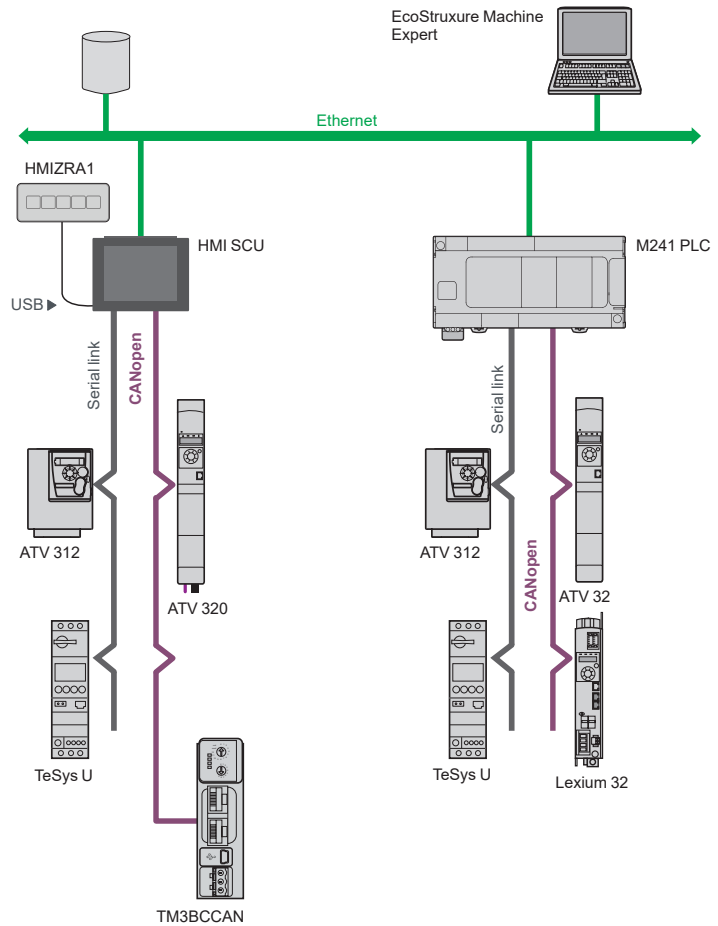
Vijeo Designer (included in SoMachine or EcoStruxure Machine Expert)

Configuration

Harmony SCU are configured using Schneider Electric's unique machine automation software, SoMachine and EcoStruxure Machine Expert. This software, combining both HMI and control functions, is based on Vijeo Designer software (1) running on Microsoft Windows version 7, 8.1, 10, and 11 Professional. SoMachine software (1) boasts an advanced user interface with many configurable windows, enabling unique projects to be developed quickly and easily.

Communication

Examples of communication architectures



The HMI controllers panels communicate with automation devices through one integrated serial link using the following communication protocols:

- Harmony SCU 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

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 client to control all the peripherals which can be connected on this bus.

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

(1) For more information please refer to Vijeo Designer software catalog [DIA5ED2130614EN](#) and SoMachine software catalog [DIA3ED2140110EN](#).

Harmony SCU

HMI controllers for simple machines with up to 16 Is/10 Os

Functions

Harmony SCU are part of Schneider Electric's Flexible Machine Control concept, a key element in MachineStruxure.

Harmony SCU 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
- Multiwindow 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

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

Harmony SCU 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, these 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

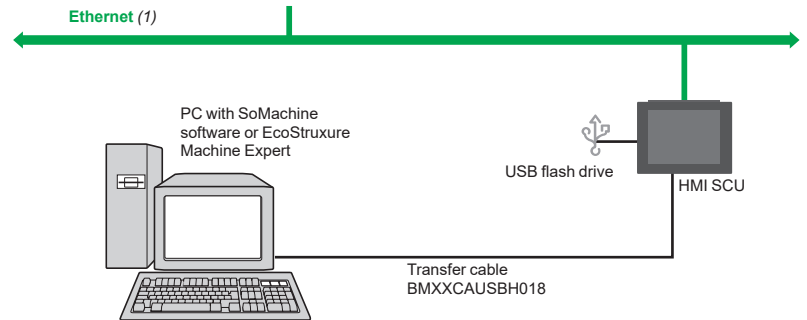
Harmony SCU

HMI controllers for simple machines with up to 16 Is/10 Oss

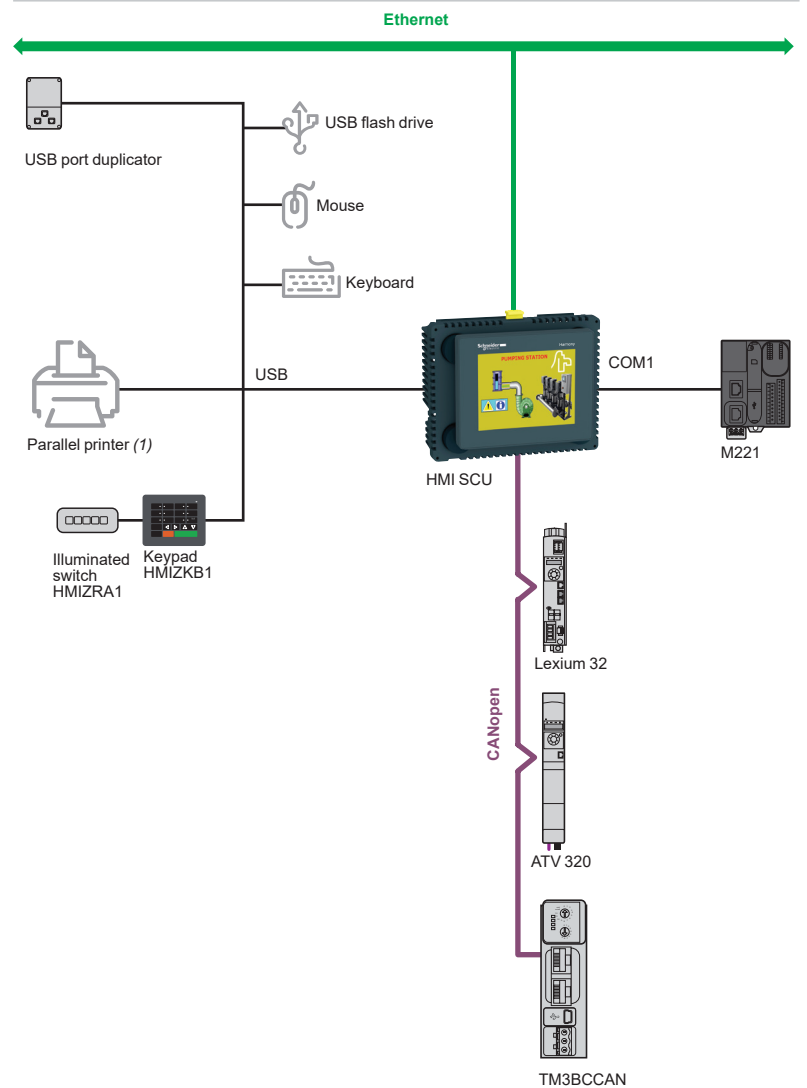
Operating modes for the panels

The following illustrations show the equipment that can be connected to Harmony SCU controller according to their two operating modes.

Edit mode



Run mode

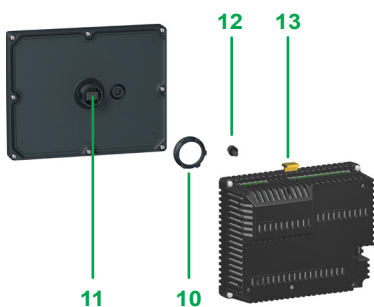
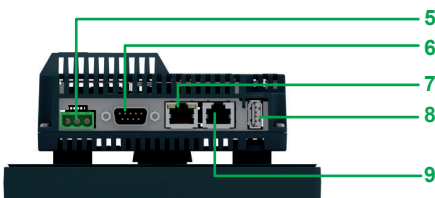
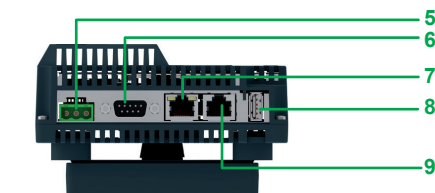
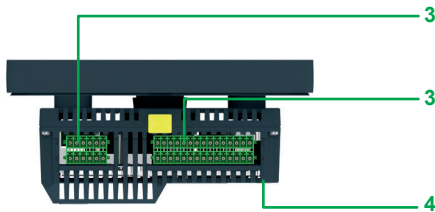
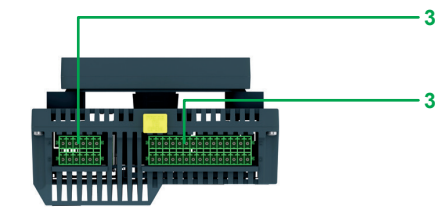


(1) Should be a Hewlett Packard printer via a USB/PIO converter.

Harmony SCU

HMI controllers for simple machines with up to 16 Is/10 Os

Harmony HMISCU●A5 HMI controllers



Description

Harmony HMISCU●A5 HMI controllers

Front Panel

To control simple machines, Harmony SCU has 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 $\bar{\text{---}}$ 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 primary 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

Harmony SCU 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

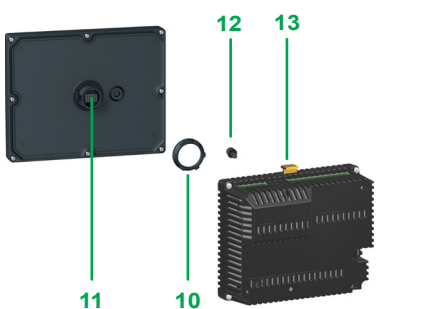
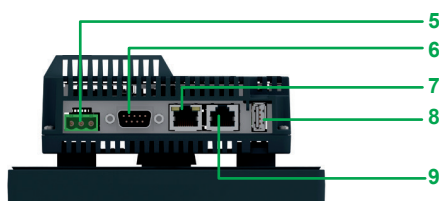
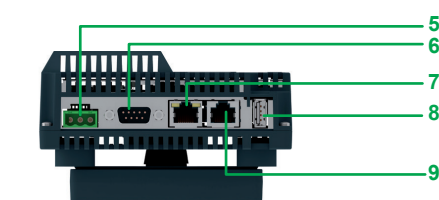
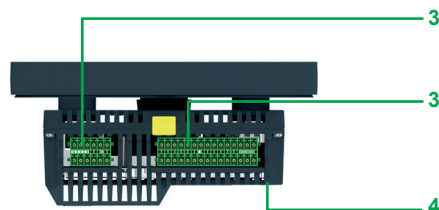
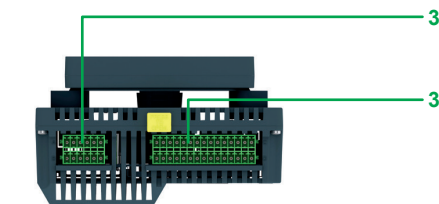
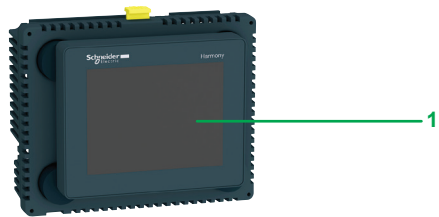
This system is included with the complete products (see [page 11](#)).

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](#)).

Harmony SCU

HMI controllers for simple machines with up to 16 Is/10 Os

Harmony HMISCU●B5 HMI controllers



Description

Harmony HMISCU●B5 HMI controllers

Front panel

To control simple processes, Harmony SCU has 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 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 $\bar{\square}$ 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 primary 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

Harmony HMI SCU 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](#)).

Harmony SCU

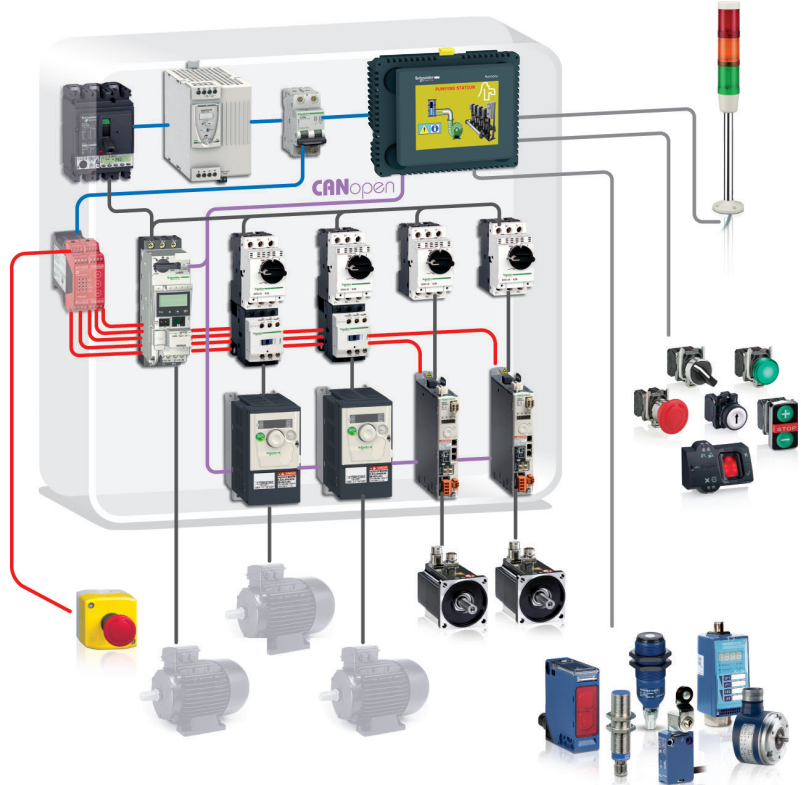
HMI controllers for simple machines with up to
16 Is/10 Os
CANopen

Presentation

Harmony SCU Small HMI controllers integrate the CANopen bus client function.

SoMachine and EcoStruxure Machine Expert software are used to configure the CANopen machine bus (1) for the Harmony SCU HMI controllers (1).

Example architecture



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

The various services offered are:

- One or more profiles are supplied for Schneider Electric secondary such as ATV 312/61/71 variable speed drives and Lexium 32 servo drives. This makes it possible to configure the secondary 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 secondary:
 - The user can choose from a list which can be modified. This simply involves importing an EDS-type (Electronic Data Sheet) description file.
 - The secondary can be positioned on the bus: The secondary number, speed, monitoring, etc. can be defined.
 - The user can select variables from the list of variables managed by the secondary.
 - A link between variables and the data exchanged.
 - Symbolization of data exchanged.

The CANopen bus is used to manage various clients such as:

- Digital and analog clients
- Variable speed drives, motor starters, etc.

(1) For more information on SoMachine software and CANopen bus, please refer to our website www.se.com.

(1) For more information on CANopen bus references, please refer to CANopen for machines catalog DIA3ED2160104EN.

Harmony SCU

HMI controllers for simple machines with up to 16 Is/10 Os

Harmony HMISCU●A5 and HMISCU●B5



HMISCU6●5



HMISCU8●5

Harmony HMISCU●A5 HMI controllers for control of simple machines (1)

Complete products 24 V --- (Screen module + Controller module)

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

Harmony HMISCU●B5 HMI controllers for control of simple processes (1)

Type of screen	No. of ports	Application memory capacity	Compact Flash memory	Integrated I/O	No. of Ethernet ports	Reference	Weight kg/lb
Complete products 24 V --- (Screen module + Controller module)							
3.5" QVGA color TFT	2 USB 1 COM1 1 CANopen	128 MB	No	8 digital I/8 digital O 4 analog I/ 2 analog O	1	HMISCU6B5	0.551/ 1.215
5.7" QVGA color TFT	2 USB 1 COM1 1 CANopen	128 MB	No	8 digital I/8 digital O 4 analog I/ 2 analog O	1	HMISCU8B5	0.803/ 1.770

(1) Mounting system for Ø 22 mm hole, power supply and I/O connectors, locking device for USB connector and instruction sheet included with panels. The setup documentation for Harmony SCU is supplied in electronic format with the SoMachine software (please refer to our website www.se.com).

Harmony SCU

HMI controllers for simple machines with up to 16 Is/10 Os

Separate parts, Replacement parts

105872-35M



XBTZGUSB

PF122208-30-Q



HMZSURDP

Separate parts

Description	Compatibility	Reference	Weight kg/lb
Protective sheets (5 peel-off sheets)	HMISCU6●●	HMZS61	–
	HMISCU8●●	HMZS62	–

Designation	Description	Length m/ft	Reference	Weight kg/lb
Remote USB port location for type A terminal	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)	1.0/3.28	XBTZGUSB	–
Remote USB port location for mini type B terminal		–	HMZSUSBB	–
Remote Controller module connection cable	Enables separate mounting of the Controller module and Screen module on DIN rail (for example, inside an enclosure)	3.0/9.84	HMZSURDP	–
		5.0/16.40	HMZSURDP5	–
		10/32.81	HMZSURDP10	–
Cable for transferring application to PC	USB type connector	1.8/5.90	BMXXCAUSBH018	–
Accessories kit (compatible with all SCU small controllers)	Contains: <ul style="list-style-type: none"> ■ An anti-rotation tee ■ A USB A type clip ■ A USB mini-B type clip ■ An adaptor panel for mounting on an enclosure of 1 mm in thickness 	–	HMZSUKIT	–

Replacement parts

Description	For use with	Reference	Weight kg/lb
Direct I/O connector	All Harmony SCU	HMZSDIO	–
3.5" Screen module	Controller modules HMISAC and HMISBC	HMIS65	0.153/ 0.337
3.5" Screen module without logo	Controller modules HMISAC and HMISBC	HMIS65W	0.153/ 0.337
5.7" Screen module	Controller modules HMISAC and HMISBC	HMIS85	0.405/ 0.893
5.7" Screen module without logo	Controller modules HMISAC and HMISBC	HMIS85W	0.405/ 0.893
Simple machine Controller module	Screen modules HMIS65 (3.5") and HMIS85 (5.7")	HMISAC	0.359/ 0.791
Simple process Controller module	Screen modules HMIS65 (3.5") and HMIS85 (5.7")	HMISBC	0.398/ 0.877
Fixing nuts	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)	ZB5AZ901	–
Tightening tool	For tightening fixing nut	ZB5AZ905	–

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

Harmony SCU

HMI controllers for simple machines with up to 16 Is/10 Os

Equivalent product table

Equivalent product table between XBTGC panels and HMISCU panels

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

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

Old Magelis XBTGC HMI controllers (1)		Replaced by Harmony SCU HMI controllers		Compatibility
Description	Reference	Description	References	
3.8" STN screen, amber or red	XBTGC1100T XBTGC1100U	3.5" QVGA color TFT	HMISCU6A5	No cut-out, push-button mounting system Display with identical resolution and 64 K colors
5.7" STN screen, black and white mode	XBTGC2120T XBTGC2120U	5.7" QVGA color TFT	HMISCU8A5	No cut-out, push-button mounting system Display with identical resolution and 64 K colors
5.7" QVGA color	XBTGC2330T XBTGC2330U			

(1) XBTGC2330 must be used if HSC and PTO cannot be converted to HMISCU or if TM2 modules need to be supported directly.

B	
BMXXCAUSBH018	12
H	
HMIS65	12
HMIS65W	12
HMIS85	12
HMIS85W	12
HMISAC	12
HMISBC	12
HMISCU6A5	11
	13
HMISCU6B5	11
HMISCU8A5	11
	13
HMISCU8B5	11
HMIZS61	12
HMIZS62	12
HMIZSDIO	12
HMIZSUKIT	12
HMIZSURDP	12
HMIZSURDP5	12
HMIZSURDP10	12
HMIZSUSBB	12
X	
XBTGC1100T	13
XBTGC1100U	13
XBTGC2120T	13
XBTGC2120U	13
XBTGC2330T	13
XBTGC2330U	13
XBTZGUSB	12
Z	
ZB5AZ901	12
ZB5AZ905	12

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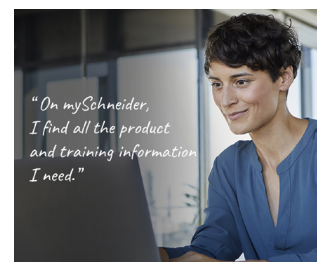
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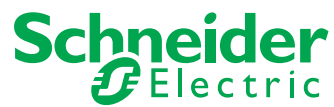
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