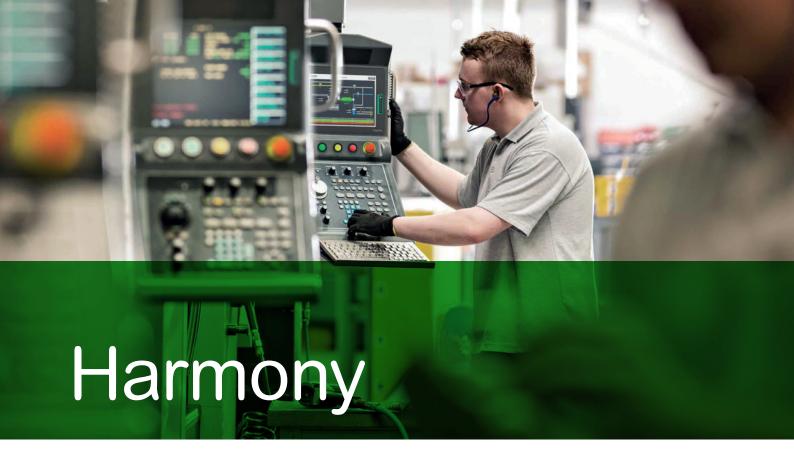


High-resolution and cost-efficient basic HMI





#### Discover Harmony

Advanced operator interface and industrial relays

Harmony operator interface and industrial relays enhance operational efficiency and equipment availability across industrial and building applications. Harmony includes intelligent connected products and edge terminals that visualize, gather and process data, enabling informed operator decisions

#### Explore our offer

- Harmony Push Buttons and Switches
- Harmony HMI Operator Terminals, IPC and EdgeBox
- Harmony Signaling Devices
- Harmony Electrical Relays
- Harmony Safety



# Quick access to product information

#### Get technical information about your product



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

#### Find your catalog

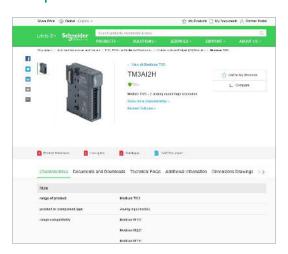


- > With just 3 clicks, you can access the Industrial Automation and Control catalogs, in both English and French
- > Consult digital automation catalogs at Digi-Cat Online

#### Select your training



- > Find the right <u>Training</u> for your needs on our Global website
- > Locate the training center with the selector tool, using this link





- · Up-to-date catalogs
- Embedded product selectors, 360° pictures
- Optimized search by commercial references





## General contents

#### Harmony ST6 basic HMI panels

	General presentation
	Refined hardware designpage
	Easy to installpage
	Visualization
	Easy to usepage
	Connected and securepage
Se	election guide
	Presentation
	Environmentpage 1
	Software functions page 1
	Communication
	Functions
	Panel operating modes
	- Edit mode
	- Operating modepage 1
	Description
	Panels with 4" and 7" touchscreens
	Panels with 10", 12", and 15" touchscreens
	Modular panels with 4" and 7" display modules and rear module page 1
	References
	Basic/Web/modular HMI panels
	Accessories
	Separate parts
	Spare partspage 2
	Connection systempage 2
	Product reference index page 2

#### High-resolution and cost-efficient basic HMI

#### **Harmony ST6**



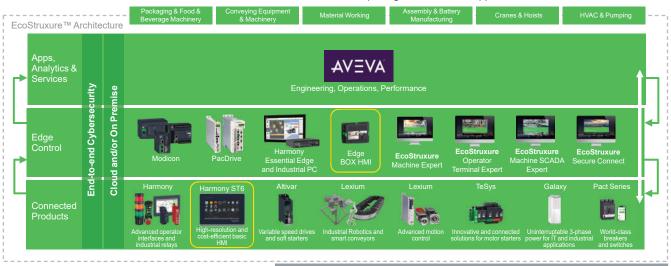
for Industry

Harmony ST6 HMI panels range in sizes from 4" to 15" wide combining the exceptional quality of good graphics and stylish design. They are available in basic, modular, web and Edge Box. The ST6 and STM6 panels offer an improved user operation experience through an intuitive design powered by EcoStruxure Operator Terminal Expert software. The STW6 panels have a pre-installed browser that provides a ready-to-use agnostic terminal allowing all devices to be visualized within an HTML5 server.

The Edge Box HMI, thanks to the power of EcoStruxure™ Machine SCADA Expert software, provides an affordable Box ready for Cloud services.

EcoStruxure Machine brings together key technologies for product connectivity and on-premise edge control, and cloud technologies to provide analytics and digital services. EcoStruxure Machine helps you bring more innovation and added value to your customers throughout the entire machine life cycle.

The Harmony ST6/STW6/STM6 and the Edge Box HMI versions meet IIoT challenges at the Connected Products level, by providing secure communication, connectivity, and efficiency to the required software and applications at the Edge Control level, thus opening more business opportunities.



#### Refined hardware design

A well-finished appearance: CNC machining, processing, and color coating like a smartphone gives it a high-grade finish

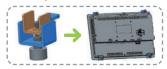


#### Easy to install

- Quick mounting without screwdriver for ST6/STW6 panels:
  - Spring clip for 4" panel (1)



- Tool-free fastener for 7", 10", 12", and 15" panels



(1) This accessory has to be ordered separately.



→ Harmony ST6 → An HMI adapted for IIoT and cybersecurity

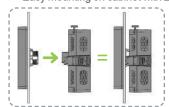
High-resolution and cost-efficient basic HMI

#### Easy to install (continued)

> Electronic manual via QR code for easy in-field maintenance without PC or paper for all ST6 panels



- > Easy like a pushbutton mounting for STM6 panels:
  - Easy mounting on cabinet with 22 mm hole for a fast, no error and tool-free HMI



- Easy for maintenance with modularity
- Easy for applications with separation cable accessory



#### Visualization

- > High-quality wide screen, high resolution with 16 million colors
- > Improved graphics with truetype fonts, gradient, transparency, and anti-aliasing



> Theme and color set for supporting situational awareness









Alarm mode



Night mode

Day mode



Attractive aesthetics and visualization for simple machines

High-resolution and cost-efficient basic HMI

#### Easy to use

#### Harmony ST6/STM6 basic HMI

> With the Multi-screen function, more information can be displayed on a single screen



Multi-screen function

- > With the Layout Objects (Dock Panel) function:
- Several pages can be embedded in one screen and users can navigate in each section independently
- Screens are automatically resized to fit the frame
- Frame sizes can be dynamically changed to show different content



Layout objects

- With WebViewer feature from EcoStruxure Operator Terminal Expert, all Harmony ST6/STM6 products can be visualized and operated remotely on PC/Tablet/ Smartphone
- With the ability to switch between text-based script and blocky-based script, designer now have the flexibility and efficient way to create custom script operations
- With Mobile Access function from EcoStruxure Machine SCADA Expert, Harmony Edge Box HMI can be visualized and operated remotey on PC/Tablet/Smartphone



With Harmony STM6 Gateway Box and WebViewer function or with the Harmony Edge Box HMI and Mobile Access function, the new Harmony HMISTM6 can become a Faceless HMI for applications that doesn't need a full time operator screen



Schneider

Enhanced Cybersecurity

#### **Harmony ST6**

#### High-resolution and cost-efficient basic HMI

#### Easy to use (continued)

#### Harmony STW6 basic web HMI

- > The panel with HTML5 Browser function enables:
- Easy display of Title bar by swiping the top of screen for full navigation
- Access to Menu for configuration of different servers and Web terminals
- Visualization of all Web content of HTTP servers within industrial devices (1)



#### Harmony Edge Box HMI

- > EcoStruxure Machine SCADA Expert functions enables storing data everywhere:
- Easy settings of Data for Clouds like Azure, Amazon Web Services & Aveva
- Small Edge features with data stamping and data treatment (filter, convert, compute, condition) before transfer to the Cloud
- Local & external database storage

#### Connected and secure

- > Harmony ST6 offer is uniquely positioned in "Connected Products" within the EcoStruxure platform for enhanced cybersecurity
- > Ethernet Download disabled by default <Runtime>
- > OP user logged out after predefined idle time <RunTime>
- > Security check performed during booting <CPU>
- > Secure Ethernet download is supported by IPSec and password protected project file (supported in EcoStruxure Operator Terminal Expert v3.1 service pack 1 or later)
- > EcoStruxure Secure Connect allows secure remote access to the device via a private, point-to-point connection (service pre-installed on all Harmony ST6 family) and HMISTM6 Gateway Box or HMISTM6 Edge Box HMI becomes an affordable all access point



(1) As there may be limited access to all features of the HTML5 connected server, please contact your local Schneider Electric representative for more details.





### High-resolution and cost-efficient basic HMI Harmony ST6 Basic HMI panels

Applications

Type of display module

Display of text messages, graphic objects, and synoptic views Control and configuration of data





Display	Touchscreen size	4.3" W	7" W			
	Resolution (pixels)	480 x 272 pixels, 16 million colors	800 x 480 pixels (WVGA), 16 million colors			
	Туре	TFT Color LCD, single-touch analoge re	sistive			
Degree of protectio	n	IP65F, Type 1, Type 4X (indoor use only an enclosure)	), Type 13 (on the front panel when properly installed			
Functions	Brightness control	16 levels (adjusted with touch panel or s	16 levels (adjusted with touch panel or software)			
	Backlight service life	50,000 hrs or more (until backlight bright	tness decreases to 25%)			
Memory	Device memory	512 MB	1 GB			
	Application memory	128 MB	128 MB			
	Backup memory	512 KB NVRAM				
Dimensions	External W × H × D mm/in.	134.5 x 108.5 x 43/5.3 x 4.27 x 1.69	208 x 153 x 45/8.19 x 6.02 x 1.77			
	Cut-out W × H mm/in.	118.5 x 92.5/4.67 x 3.64	190 x 135/7.48 x 5.31			
Weight	kg/lb	0.400/0.880	0.800/1.760			
Supply voltage		24 V				
Environment		Ambient air temperature 050 °C/321	22 °F			
Communication	Asynchronous serial link	RS-232C/485 (COM1)	RS-232C (COM1), RS-485 (COM2)			
	USB ports	1x USB 2.0 (Type A), 1x USB 2.0 Micro-l	В			
	Buses and networks	1x Ethernet TCP/IP (10BASE-T/100BASE-TX)	2x Ethernet TCP/IP (10BASE-T/100BASE-TX)			
RTC		Yes	,			
Conformity to stand	dards and certifications	CE, China RoHS, REACH,KC, EN (61000-6-4/61000-6-2/61131-2), UL 61010-2-201, CSA C22.2 No 61010-2-201				
Operating system		Harmony (800 MHz ARM Cortex-A8 CPU)				
Development softw	vare	EcoStruxure Operator Terminal Expert (	EcoStruxure Operator Terminal Expert (1)			
Terminal reference		HMIST6200, HMIST6200FV	V (2) HMIST6400			
Pages		19				

(1) For more information on EcoStruxure Operator Terminal Expert, please refer to the DIA5ED2140703EN catalog. (2) No Logo models, without the Schneider Electric logo on front module.

Display of text messages, graphic objects, and synoptic views Control and configuration of data

Basic HMI panels







10.1" W	12.1" W	15.6" W
1,024 x 600 pixels (SVGA), 16 million colors	1,280 x 800 pixels (WXGA), 16 million colors	1,366 x 768 pixels (FWXGA), 16 million colors

TFT Color LCD, single-touch analog resistive

IP65F, Type 1, Type 4X (indoor use only), Type 13 (on the front panel when properly installed in an enclosure)

16 levels (adjusted with touch panel or software)

50,000 hrs or more (until backlight brightness decreases to 25%)

1 GB

128 MB

512 KB NVRAM

273 x 203 x 47/10.75 x 7.99 x 1.85	313 x 235 x 50/12.32 x 9.25 x 1.97	412 x 268 x 50/16.22 x 10.55 x 1.97
255 x 185/10.04 x 7.28	295 x 217/11.61 x 8.54	394 x 250/15.51 x 9.84
1.300/2.870	1.800/3.970	2.700/5.950

24 V ===

Ambient air temperature 0...50 °C/32...122 °F

RS-232C (COM1), RS-485 (COM2) RS-232C (COM1), RS-485 (COM2)

1x USB 2.0 (Type A), 1x USB 2.0 Micro-B

2x Ethernet TCP/IP (10BASE-T/100BASE-TX)

Yes

CE, China RoHS, REACH,KC, EN (61000-6-4/61000-6-2/61131-2), UL 61010-2-201, CSA C22.2 No 61010-2-201

Harmony (800 MHz ARM Cortex-A8 CPU)

EcoStruxure Operator Terminal Expert (1)

HMIST6500, HMIST6500FW (2) HMIST6600, HMIST6600FW (2) HMIST670

Schneider Electric

1







Harmony ST6
High-resolution and cost-efficient basic HMI
Harmony STW6 Basic Web HMI panels

**Applications** 

Type of display module

Display of text messages, graphic objects, and synoptic views Control and configuration of data Basic Web HMI panels





		Frigoristic .	belgesteler
Display	Touchscreen size	4.3" W	7" W
	Resolution (pixels)	480 x 272 pixels, 16 million colors	800 x 480 pixels (WVGA), 16 million colors
	Туре	TFT Color LCD, single-touch analog resis	stive
Degree of protection	on	IP65F, Type 1, Type 4X (indoor use only), an enclosure)	Type 13 (on the front panel when properly installed in
Functions	Brightness control	16 levels (adjusted with touch panel or so	ftware)
	Backlight service life	50,000 hrs or more (until backlight brightn	ness decreases to 25%)
Memory	Device memory	512 MB	
	User data memory	512 MB	
	Backup memory	128 KB	
Dimensions	External W × H × D mm/in.	134.5 x 108.5 x 43/5.3 x 4.27 x 1.69	208 x 153 x 45/8.19 x 6.02 x 1.77
	Cut-out W × H mm/in.	118.5 x 92.5/4.67 x 3.64	190 x 135/7.48 x 5.31
Weight	kg/lb	0.400/0.880	0.800/1.760
Supply voltage		24 V	
Environment		Ambient air temperature 050 °C/3212	22 °F
Communication	Asynchronous serial link	-	
	USB ports	1x USB 2.0 (Type A), 1x USB 2.0 Micro-B	
	Buses and networks	1x Ethernet TCP/IP (10BASE-T/100BASE-TX)	2x Ethernet with switch function for daisy chain (10BASE-T/100BASE-TX)
RTC		No	
Conformity to stan	dards and certifications	CE, China RoHS, REACH,KC, EN (61000 C22.2 No 61010-2-201	-6-4/61000-6-2/ 61131-2), UL 61010-2-201, CSA
Operating system		Harmony (800 MHz ARM Cortex-A8 CPU	)
Development softw	/are	Linux Browser HTML5	
Terminal reference		HMISTW6200	HMISTW6400
Pages		19	

Display of text messages, graphic objects, and synoptic views Control and configuration of data

Basic Web HMI panels







10.1" W	12.1" W	15.6" W
1,024 x 600 pixels (SVGA), 16 million colors	1,280 x 800 pixels (WXGA), 16 million colors	1,366 x 768 pixels (FWXGA), 16 million colors

TFT Color LCD, single-touch analog resistive

IP65F, Type 1, Type 4X (indoor use only), Type 13 (on the front panel when properly installed in an enclosure)

16 levels (adjusted with touch panel or software)

50,000 hrs or more (until backlight brightness decreases to 25%)

512 MB

512 MB

128 KB

273 x 203 x 47/10.75 x 7.99 x 1.85	313 x 235 x 50/12.32 x 9.25 x 1.97	412 x 268 x 50/16.22 x 10.55 x 1.97
255 x 185/10.04 x 7.28	295 x 217/11.61 x 8.54	394 x 250/15.51 x 9.84
1.300/2.870	1.800/3.970	2.700/5.950

24 V ....

Ambient air temperature 0...50 °C/32...122 °F

RS-232C (COM1), RS-485 (COM2)

1x USB 2.0 (Type A), 1x USB 2.0 Micro-B

2x Ethernet with switch function for daisy chain (10BASE-T/100BASE-TX)

CE, China RoHS, REACH,KC, EN (61000-6-4/61000-6-2/61131-2), UL 61010-2-201, CSA C22.2 No 61010-2-201

Harmony (800 MHz ARM Cortex-A8 CPU)

Linux Browser HTML5

HMISTW6500	HMISTW6600	HMISTW6700

Schneider Electric





Harmony ST6
High-resolution and cost-efficient basic HMI Harmony STM6 Basic Modular HMI panels

Applications Type of module Display of text messages, graphic objects, and synoptic views Control and configuration of data **Basic Modular HMI Gateway Box** Edge Box HMI



Display	Touchscreen size	-				
	Resolution (pixels)	-				
	Туре	-				
Degree of protection	n	IP20 installed on Din Rail				
Functions	Brightness control	-				
	Backlight service life	-				
Memory	Device memory	1 GB				
	Application memory	128 MB				
	Backup memory	512 KB				
Dimensions	External W × H × D (mm/in.)	150.49 x 109.97 x 63.3/5.92 x 4.33 x 2.49	150.49 x 109.97 x 63.3/5.92 x 4.33 x 2.49			
	Cut-out (mm/in.)	-				
Weight	Display (kg/lb)	-	-			
	Rear (kg/ <i>lb</i> )	0.456/1.005				
Supply voltage		24 V				
Environment		Ambient air temperature 060 °C/32140 °F				
Communication	Asynchronous serial link	RS-232C/485 (COM1)				
	USB ports	1x USB 2.0 (Type A), 1x USB 2.0 Micro-B				
	Buses and networks	2x Ethernet TCP/IP (10BASE-T/100BASE-TX)	)			
RTC		Yes				
Conformity to stand	dards and certifications	CE, China RoHS, REACH, KC, EN (61000-6-4) C22.2 No 61010-2-201, ATEX Zone2/22, Mariu				
Operating system		Harmony (800 MHz ARM Cortex-A8 CPU)				
Development softw	vare	EcoStruxure Operator Terminal Expert (1)	EcoStruxure Machine SCADA Expert (3)			
Terminal reference		HMISTM6BOX	HMISTM6BOXIOT			
Pages		19				

(1) For more information on EcoStruxure Operator Terminal Expert, please refer to the DIA5ED2140703EN catalog.

(2) DNV-GL, RINA, ABS.
(3) HMISTM6BOXIOT to EMSE catalog
(4) No Logo models, without the Schneider Electric logo on front module.

Display of text messages, graphic objects, and synoptic views Control and configuration of data

Basic Modular HMI panels





"Waters	Edgester
4.3" W	7" W
480 x 272 pixels, 16 million colors	800 x 480 pixels (WVGA), 16 million colors
TFT Color LCD, single-touch analog resistive	
IP65F, Type 1, Type 4X (indoor use only), Type 12 and Type 13 (on the front pane	el when properly installed in an enclosure)
16 levels (adjusted with touch panel or software)	
50,000 hrs or more (until backlight brightness decreases to 25%)	
1 GB	
128 MB	
512 KB	
145.60 x 108.20 x 53.90/5.73 x 4.25 x 2.12	201.20 x 137.20 x 57.70/7.92 x 5.40 x 2.27

Hole diameter 22.5/0.88 0.220/0.490 0.490/1.080

0.270/0.600

24 V ....

Ambient air temperature 0...50 °C/32...122 °F

RS-232C/485 (COM1)

1x USB 2.0 (Type A), 1x USB 2.0 Micro-B

2x Ethernet TCP/IP (10BASE-T/100BASE-TX)

CE, China RoHS, REACH, KC, EN (61000-6-4/61000-6-2/61131-2), UL 61010-2-201, CSA C22.2 No 61010-2-201, ATEX Zone2/22, Marine (2)

Schneider Electric

Harmony (800 MHz ARM Cortex-A8 CPU)

EcoStruxure Operator Terminal Expert (1)

HMISTM6200, HMISTM6200FW (4)

HMISTM6400, HMISTM6400FW (4)







#### High-resolution and cost-efficient basic HMI



Harmony ST6/STW6/ STM6 color touchscreen panels

#### **Presentation**

Harmony ST6 HMI panels provide high-quality graphics and stylish design. They are color touchscreen panels (TFT technology) available in three versions and two version with only a Box without screen:

- ☐ HMIST6 Basic: 4.3", 7", 10.1", 12.1", and 15.6" panels
  ☐ HMISTW6 Web: 4.3", 7", 10.1", 12.1", and 15.6" panels
  ☐ HMISTM6 Modular: 4.3" and 7" panels, faceless Basic HMI Gateway Box
- ☐ HMISTM6 Edge Box HMI

Their efficiency, flexibility, connectivity, and security features make them suitable for use in food and beverage, HVAC&R, pumping, and packaging applications.

#### **Environment**

The Harmony ST6/STW6/STM6 Basic range has been designed in accordance with numerous standards, certifications, and requirements:

- Compliance standards:
- □ Europe:
  - Low Voltage Directive (2014/35/EU), EMC Directive (2014/30/EU), Programmable Controllers: EN 61131-2, EN 61000-6-4, EN 61000-6-2
- □ Australia:
  - RCM
  - EN 61000-6-4
- □ Korea
  - KC
  - KN 11
  - KN 61000-6-2
- □ Russia, Belarus, Kazakhstan:
  - FAC
- Agency certifications:
- ☐ Third-party certified standards: Underwriters Laboratories Inc., UL 61010-2-201 and CSA C22.2 No. 61010-2-201, Industrial Control Equipment
- Operating temperature: up to 50 °C/22 °F
- Degree of protection: IP65F, Type 1, Type 4X (indoor use only), Type 13 (on the front panel when properly installed in an enclosure)
- Vibration resistance:
- □ IEC/EN 61131-2 compliant, 5...9 Hz single amplitude 3.5 mm/0.14 in., 9...150 Hz fixed acceleration: 9.8 m/s2, X, Y, Z directions for 10 cycles (approximately 100 minutes)
- Shock resistance
- $\hfill \square$  IEC/EN 61131-2 compliant, 147 m/s², X, Y, Z directions for 3 times
- Electrical fast transient/burst
- □ IEC 61000-4-4
- □ 2 kV: Power port (display unit)
- □ 1 kV: Signal ports
- Electrostatic discharge immunity
- ☐ Contact discharge method: 6 kV
- ☐ Air discharge method: 8 kV (IEC/EN 61000-4-2 Level 3)

The modular Harmony STM6 and Harmony Edge Box HMI also certifies:

- Agency certifications:
- □ Underwriters Laboratories Inc., UL 121201 and CSA C22.2 N°213 for Industrial Control Equipment used in Class I, Division 2 Hazardous (Classified) Locations
- □ IECEx/ATEX for use in Zone 2 gas/Zone 22 dust
- ☐ Merchant Navy, following IACS E10

#### High-resolution and cost-efficient basic HMI



EcoStruxure Operator Terminal Expert

# Web page title Schneider Schneider Web client

#### **Software functions**

#### Harmony ST6 Basic and STM6 Modular HMI panels

The Harmony ST6 and STM6 are configured using EcoStruxure Operator Terminal Expert software. This software and its user interface bring greater ease of use to project development and online updates. EcoStruxure Operator Terminal Expert allows you to create HMI applications with an innovative navigation concept on Harmony ST6.

These panels with EcoStruxure Operator Terminal Expert software offers the following functions:

- Display of animated synoptic views with 8 types of animation (pressing the touch panel, color changes, filling, movement, rotation, size, visibility, and value display)
- Control, modification of numeric and alphanumeric values
- Display of current date and time
- Real-time and trending curves with log
- Alarm display, alarm log, and management of alarm groups
- Multi-window
- Recipe management
- Multi-language support in the Buildtime editor (10 languages)
- Storage of the application logs on USB stick
- Support of USB Barcode reader
- WebViewer for remote visualization on PC/Tablet/Smartphone (2)

For more information on EcoStruxure Operator Terminal Expert, please refer to the DIA5ED2140703EN catalog.

#### Harmony STW6 Web HMI panels

Harmony STW6 uses the Web browser which acts like a Web client to display screens (1) that run Web servers on the same Intranet.

- 1 Displays the title of the Web server page or the URL when the page does not have a title
- 2 Web page area
- 3 Title bar
  - Moves to the previous page
  - Moves to the next page
  - Icon appears while loading the Web page instead of Refresh page icon and when clicked will stop loading the page
  - Reloads the Web page and icon changes to "Stop loading"
  - Displays the Web server screen set in Server → Start Page
  - Touch this icon to display the sub-menu

#### Harmony Edge Box HMI

- Harmony Edge Box HMI is configured using EcoStruxure Machine SCADA Expert. This software allows to collect data with different drivers on OT devices and to push data on IT side with different Cloud drivers. In addition basic HMI features can be configured on this Box :
  - Display of animated synoptic and control of numeric, alphanumeric values remotely via Web Interface.
  - Scheduler Task with date & time
  - Mathematic Task
  - Alarm Task with log
  - Trend Task with log
  - Storage of the application logs in internal Flash memory, on USB sticks and on External DataBase
  - Remote Visualization with Mobile Access function

For more information on EcoStruxure Machine SCADA Expert, please refer to the DIA5ED2171201EN catalog.

<sup>(1)</sup> For supported models, please contact your local Schneider Electric support representative.

<sup>(2)</sup> WebViewer function is an option of EcoStruxure Operator Terminal Expert and will have to be purchased as a separate license for all ST6/STM6 references, except for HMISTM6BOX reference which includes the license.

# **Harmony ST6**High-resolution and cost-efficient basic HMI

#### Communication

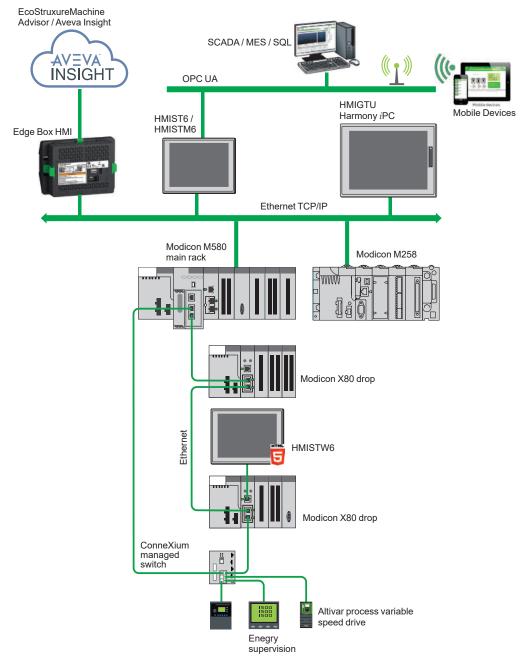
Harmony ST6 HMI panels communicate with PLCs via one or two integrated serial links, using the following communication protocols:

- Schneider Electric (Uni-TE, Modbus)
- Third-party: Mitsubishi Electric, Omron, Allen-Bradley, and Siemens

Harmony ST6 HMI Panels can also communicate on second Ethernet Network with SCADA/MES /ERP using OPC-UA protocol and with PC or Mobile devices for remote visualization using WebViewer function.

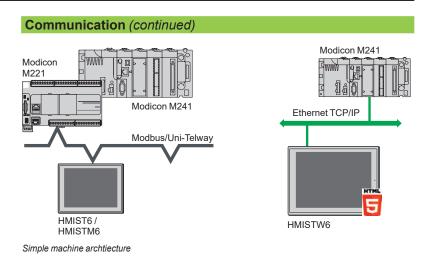
Depending on the model, they can be connected to Ethernet TCP/IP networks using one of the following:

- A Modbus TCP protocol
- A third-party protocol



Typical plant archtiecture

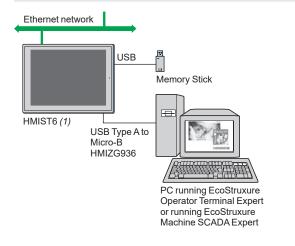
# Harmony ST6 High-resolution and cost-efficient basic HMI



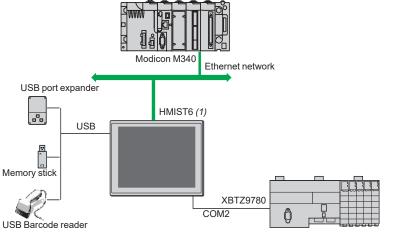
#### Panel operating modes

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

#### Edit mode



#### Operating mode



Modicon M241/M251

(1) HMIST6/HMISTM6 panels.

# High-resolution and cost-efficient basic HMI Basic/Web panels with 4" and 7" touchscreens

# 2 1 3

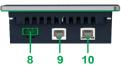
Front view



Top view of HMIST6200

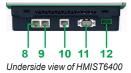


Rear view



Underside view of HMIST6200







#### **Description**

#### Harmony HMIST6 200/400 Basic and HMISTW6 200/400 Web HMI panels Front view

- 1 Single-touch resistive screen for displaying synoptic views
- 2 Multi-color status indicator (green, orange, and red) showing the panel's operating mode
- 3 Aluminum alloy front panel providing IP65F protection when mounted on panel or enclosure door
- 4 Without the Schneider Electric logo on the front module for the HMIST6200FW Basic HMI panels

#### Top view

- 5 Battery slot (1)
- 6 Hook to hold panel in position during installation

#### Rear view

- 7 USB (Type A) interface
- 8 USB (Micro-B) interface

#### Harmony HMIST6200 Basic and HMISTW6200 Web HMI panels

Underside view

- 9 Ethernet interface (ETH1)
- 10 Serial interface (RJ45, RS-232C/485) (COM1)
- 11 Power plug connector

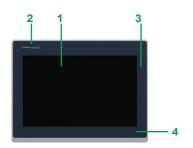
#### Harmony HMIST6400 Basic and HMISTW6400 Web HMI panels

#### Underside view

- 8 Ethernet interface (ETH2)
- 9 Ethernet interface (ETH1)
- 10 Serial interface (RJ-45, RS-485) (COM2)
- 11 Serial interface (RS-232C) (COM1)
- 12 Power plug connector

(1) For HMIST6 200/400 only.

High-resolution and cost-efficient basic HMI Basic/Web panels with 10", 12", and 15" touchscreens



Front view



Top view



Underside view



Rear view

#### **Description**

Harmony HMIST6 500/600/700 Basic and HMISTW6 500/600/700 Web HMI panels

#### Front view

- Single-touch resistive screen for displaying synoptic views
- 2 Multi-color status indicator (green, orange, and red) showing the panel's
- Aluminum alloy front panel providing IP65F protection when mounted on panel or enclosure door
- Without the Schneider Electric logo on the front module for the HMIST6500FW Basic HMI panels

5 Hook to hold panel in position during installation

#### Underside view

- 6 Battery slot (1)
- Ethernet interface (ETH2)
- Ethernet interface (ETH1)
- 9 Serial interface (RJ-45, RS-485) (COM2) (1)
- 10 Serial interface (RS-232C) (COM1) (1)
- 11 Power plug connector

#### Rear view

12 USB (Type A) interface 13 USB (Micro-B) interface

(1) For HMIST6 500/600/700 only.

High-resolution and cost-efficient basic HMI Modular panels with 4" and 7" display modules and rear module, Gateway box and Edge Box HMI

#### **Description**

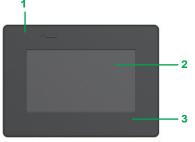
The modular Harmony STM6 version has:

- Basic HMI Modular panels HMISTM6200 and HMISTM6400, a combination of display module 4" (HMISTM6200) or 7" (HMISTM6400) and a rear module (HMISTM6B)
- Basic HMI Gateway Box, rear module (HMISTM6BOX) mounted on DIN Rail adapter
- The Edge Box HMI (HMISTM6BOXIOT) is a Box without screen and mounted on DIN rail

#### Display module

#### Front view

- 1 Multi-color status LED
- 2 Single-touch resistive screen for displaying synoptic views
- 3 Without the Schneider Electric logo on the front module for the HMISTM6 200FW/400FW Basic Modular HMI panels



Front view of HMISTM62

#### Rear module

#### Front view

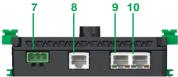
- 4 Status LED
- 5 Bumper
- 6 USB (Type A) interface
- 7 USB (micro-B) interface



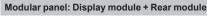
Front view of HMISTM6B

#### Underside view

- 8 Power plug connector
- 9 Serial interface (COM1)
- 10 Ethernet interface (ETH1)
- 11 Ethernet interface (ETH2)



Underside view of HMISTM6B



12 Button to seperate the rear module from display module



Side view of Modular panel



HMISTM6BOX mounted on DIN rail

#### HMISTM6 Gateway Box

13 DIN rail mount

#### HMISTM6 Edge Box HMI

Same external design than HMISTM6 Gateway Box with same communication interfaces and same power supply.

12 DIN rail mount

#### **Harmony ST6**High-resolution and cost-efficient basic HMI Basic/Web/Modular HMI panels

2x Ethernet

Number of

2x USB

**Application Number of** 

ports

2x USB

2x Ethernet

1x COM1

2x USB

2x Ethernet

1x COM1

2x Ethernet

Reference

HMISTW6700

Reference

HMISTM6200

HMISTM6400

HMISTM6400FW

HMISTM6200FW



HMIST6400

ST6_65770_CPMFS18005R	
ST6	Salgarida

HMIST6700



HMISTW6400

Data entry	Size	Resolution	Colors	Device	Application		Reference	Weight
method		(pixels)		memory	memory	ports		kg/ <i>lb</i>
Via touchscreen	4.3" W	480 x 272	16 million colors	512 MB	128 MB	2x USB 1x COM 1 1x Ethernet	HMIST6200 HMIST6200FW	0.400/0.880
	7" W	800 × 480 WVGA	16 million colors	1 GB	128 MB	2x USB 1x COM 1 1x COM 2 2x Ethernet	HMIST6400	0.800/1.760
	10.1" W	1,024 x 600 WSVGA	16 million colors	1 GB	128 MB	2x USB 1x COM 1 1x COM 2 2x Ethernet	HMIST6500 HMIST6500FW	1.300/2.870
	12.1" W	1,280 × 800 WXGA	16 million colors	1 GB	128 MB	2x USB 1x COM 1 1x COM 2 2x Ethernet	HMIST6600 HMIST6600FW	1.800/3.970
	15.6" W	1,366 x 768 FWXGA	16 million colors	1 GB	128 MB	2x USB 1x COM 1 1x COM 2	HMIST6700	2.700/5.950

tou

Data entry

Data entry

Harmony STW6 Web HMI panels

15.6" W

Size

4.3" W

7" W

FWXGA

(pixels)

480 x 272

800 × 480

**WVGA** 

**Harmony STM6 Modular HMI panels** 

**Resolution Colors** 

1,366 x 768 16 million 512 MB

colors

16 million

16 million 1 GB

colors

colors

**Resolution Colors** 

HMISTW6700

T6\_65770\_CPMFS18005R

STM6\_CP20080



HMISTM6200

method		(pixeis)		memory	memory	ports		Kg/ID
Via touchscreen	4.3" W	480 x 272	16 million colors	512 MB	512 MB	2x USB 1x Ethernet	HMISTW6200	0.400/0.880
	7" W	800 × 480 WVGA	16 million colors	512 MB	512 MB	2x USB 2x Ethernet	HMISTW6400	0.800/1.760
•	10.1" W	1,024 x 600 WSVGA	16 million colors	512 MB	512 MB	2x USB 2x Ethernet	HMISTW6500	1.300/2.870
	12.1" W	1,280 × 800 WXGA	16 million colors	512 MB	512 MB	2x USB 2x Ethernet	HMISTW6600	1.800/3.970

512 MB

memory

128 MB

128 MB

Device

memory

1 GB

User data

Device



HMISTM6400

STM6_CP20081	- 1000000000000000000000000000000000000
	HMISTM6BOX

Harmony Edge Box HMI						
Product type	Operating system	Device memory	Application memory	n Number of ports	Reference	Weight kg/ <i>lb</i>
Modular HMI box	Linux	1 GB	128 MB	2x USB 2x Ethernet 1x COM1	HMISTM6BOX	0.456/1.005
Edge Box HMI	Linux	1 GB	128 MB	2x USB 2x Ethernet 1x COM1	HMISTM6BOXIOT	0.456/1.005



Weight

2.700/5.950

Weight

0.490/1.080

0.760/1.675

kg/lb

# **Harmony ST6**High-resolution and cost-efficient basic HMI Accessories

Interfaces				
Description	Characteristics	Compatible with panels	Reference	Weight kg/ <i>lb</i>
RJ45 to D-Sub 25 pin conversion cable	Connects a D-Sub 25-pin cable to this product (RJ45)	HMISTM6200/HMISTM6400	XBTZG939	_
9-pin-to-25-pin RS-232C conversion cable	Connects a standard RS-232C cable (D-Sub 25-pin socket) to this product (D-sub 9 pin plug)	HMISTM6200/HMISTM6400	XBTZG919	_
COM Port conversion adapter	Connects optional RS-422 communication items to serial interface (RS-232C)	HMISTM6200/HMISTM6400	XBTZGCOM1	_
RS-485 isolation unit	Connects a host controller to this product with isolation	HMISTM6200/HMISTM6400	XBTZGI485	_



Accessories				
Description	Characteristics	Compatible with panels	Reference V	Veight kg/lb
USB panel-mount extension cable	Extension cable of 1 m/3.28 ft for connecting USB interface to front panel	-	HMIZSUSBB2	-
USB front cable	Extension cable that attaches USB interface to front panel	_	XBTZGUSB	_
USB Type A clamp (1 port)	Clamp to prevent disconnection of USB cable (USB Type A, 1 port), 5 clamps/set		HMIZGCLP1	_



XBTZ3002

Separate par	ts			
Description	Characteristics	Compatible with panels	Reference	Weight kg/ <i>lb</i>
Screen protection sheet with UV	Disposable, dirt-resistant and ultra-violet protection sheet (1 sheet/set)	HMIST6200/HMISTW6200/ HMISTM6200	HMIZG60W	-
protected		HMIST6400/HMISTW6400/ HMISTM6400	HMIZG63W	-
		HMIST6500/HMISTW6500	HMIZG65W1	-
		HMIST6700/HMISTW6700	HMIZG67W	_
	Disposable, dirt resistant sheet (5 sheets/set)	HMIST6600/HMISTW6600	HMIZD66W	-
Spring clip	Fasteners to attach this product to the mounting surface	HMIST6200/HMISTW6200	XBTZ3002	-

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

# **Harmony ST6**High-resolution and cost-efficient basic HMI Accessories



HMISTM6B



HMISTM64



HMIZSFIXTF1



HMIZS53W1



HMIZM6DSA



Description	Characteristics	Compatible with panels	Reference	Weigh	
2000.154.0				kg///	
Rear module	Rear module for Harmony STM6	HMISTM6200/HMISTM6400	HMISTM6B		
Display module	Display module for HMISTM6200, 4-inch wide type	HMISTM6400	HMISTM62		
Display module	Display module for HMISTM6400, 7-inch wide type	HMISTM6400	HMISTM64		
Display module fixing nut	Nut to install the display module (10 pieces/set)	HMISTM6200/HMISTM6400	ZB5AZ901		
Socket wrench	Socket wrench to tighten and loosen the display installation nut	HMISTM6200/HMISTM6400	ZB5AZ905		
Accessories kit	Anti-rotation Tee, USB Clamp Type A, USB Clamp mini-B(2) (1 piece/each)	HMISTM6200/HMISTM6400	HMIZM6KIT		
Installation fastener	Installation fastener	HMIST6200/HMISTW6200	HMIZSFIX2		
		HMIST6400/HMISTW6400	HMIZSFIXTF1 (1)		
		HMIST6500/HMISTW6500	_		
		HMIST6600/HMISTW6600			
		HMIST6700/HMISTW6700			
Installation gasket	Provides dust and moisture resistance when this product is installed in a solid	HMIST6200/HMISTW6200	HMIZS51W1		
	panel	HMISTM6200	HMIZS51W2		
		HMIST6400/HMISTW6400	HMIZS53W1		
		HMISTM6400	HMIZS53W2		
		HMIST6500/HMISTW6500	HMIZS55W1		
		HMIST6600/HMISTW6600	HMIZS56W1		
		HMIST6700/HMISTW6700	HMIZS57W1		
DC power supply connector	Connector to connect DC power supply cables	All panels	XBTZGPWS1		
Replacement battery	Primary battery for time data backup	HMIST6 panels	HMIZSBA1		

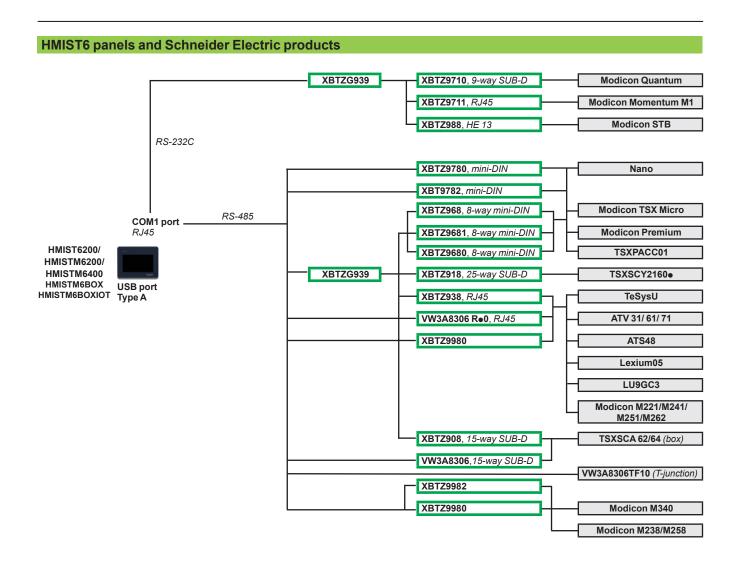
Separate pa	rte			
Description	Characteristics	Compatible with panels	Reference	Weight kg/ <i>lb</i>
Rear module installation adapter	Adapter for installing the rear module on a DIN rail	HMISTM6200/HMISTM6400	HMIZM6DSA	-
Spacer	Plate for adjusting installation panel thickness for the 4-inch wide display module	HMISTM6200	HMIZM6MP2	-
Spacer	Plate for adjusting installation panel thickness for the 7-inch wide display module	HMISTM6400	HMIZM6MP4	-
Display module/ Rear module separation cable (3 m/9.84 ft)	cable for use when installing the rear module and display module apart from the other	HMISTM6200/HMISTM6400	HMIZM6RDP3	-
Display module/ Rear module separation cable (5 m/16.40 ft)	cable for use when installing the rear module and display module apart from the other	HMISTM6200/HMISTM6400	HMIZM6RDP5	-
Display module/ rear module separation cable (10 m/32.80 ft)	cable for use when installing the rear module and display module apart from the other	HMISTM6200/HMISTM6400	HMIZM6RDP10	-

<sup>(1) 2</sup> pieces/set for HMI6400/HMI6500/HMI6600 and 3 pieces/set for HMIST6700.

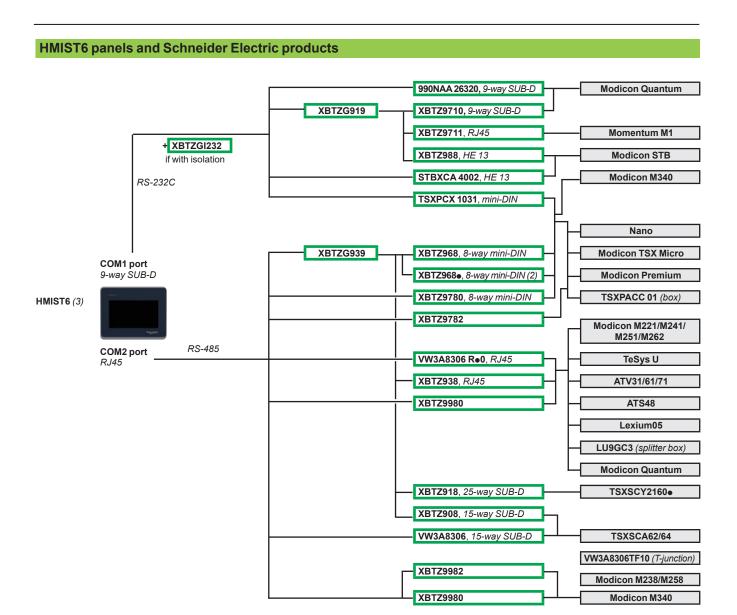
<sup>(2)</sup> USB Clamp mini-B can be used for optional USB micro-B cables.

Note: The spare and separate parts may be changed or discontinued without notice. Please check our website www.se.com for the latest information.

**Harmony ST6**High-resolution and cost-efficient basic HMI Connection system



High-resolution and cost-efficient basic HMI Connection system

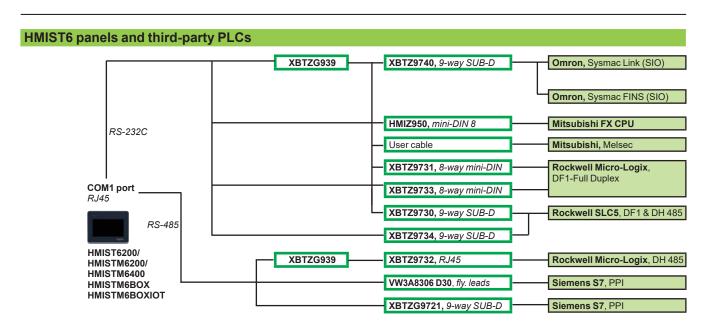


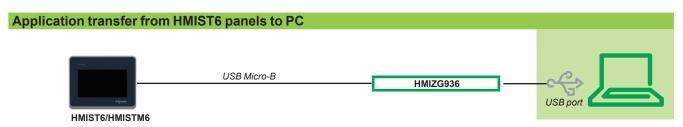
(1) RS-485 not available for HMIST6 (COM1).

(2) • defines the length:

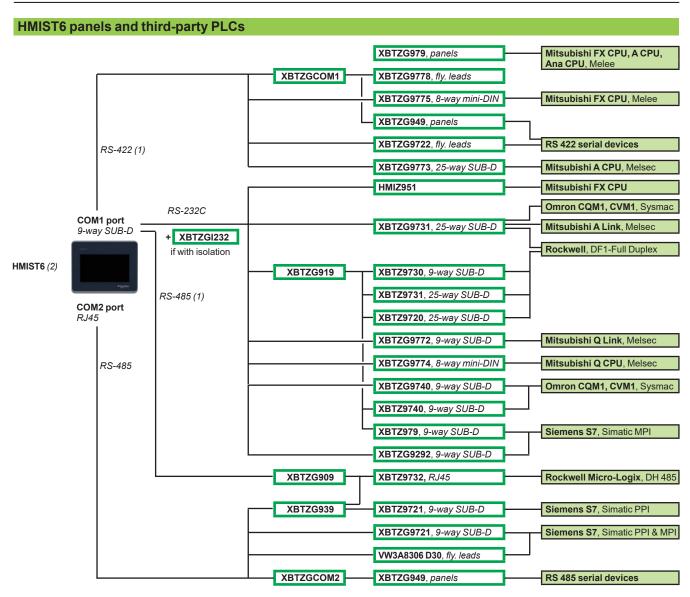
- 0: 2.5 m/8.2 ft (elbowed connector)
- 1: 5 m/16.4 ft 6: 16 m/52.5 ft
- 7: 20 m/65.6 ft
- 8: 25 m/82 ft
- (3) Except HMIST6200.

**Harmony ST6**High-resolution and cost-efficient basic HMI Connection system





High-resolution and cost-efficient basic HMI Connection system



<sup>(1)</sup> RS-422 and RS-425 not available on HMIST6 (COM1). (2) Except HMIST6200.

Harmony ST6
High-resolution and cost-efficient basic HMI
Product reference index

Н	
HMIST6200	19
HWI 3 1 0200	20
	21
HMIST6200FW	19
HMIST6400	19
	20
	21
HMIST6500	19
	20
	21
HMIST6500FW	19
HMIST6600	19
	20
	21
HMIST6600FW	19
HMIST6700	19
	20 21
LIMIOTMCO	
HMISTM62	21
HMISTM6200	19 20
	21
HMISTM6200FW	19
HMISTM64	21
HMISTM6400	19
711110 71110 400	20
	21
HMISTM6400FW	19
HMISTM6B	21
HMISTM6BOX	19
HMISTM6BOXIOT	19
HMISTW6200	19
	20
	21
HMISTW6400	19
	20 21
HMISTW6500	19
71111077770000	20
	21
HMISTW6600	19
	20 21
HMISTW6700	19
HIVIS I VVO/UU	20
	21
HMIZD66W	20
HMIZG60W	20
HMIZG63W	20
HMIZG65W1	20
HMIZG67W	20
HMIZGCLP1	20
HMIZM6DSA	21
HMIZM6KIT	21
HMIZM6MP2	
	21
HMIZM6MP4	21
HMIZM6RDP10	21
HMIZM6RDP3	21
HMIZM6RDP5	21
HMIZS51W1	21
HMIZS51W2	21
HMIZS53W1	21
HMIZS53W2	21
HMIZS55W1	21
HMIZS56W1	21
HMIZS57W1	21
HMIZSBA1	21
LIMIZOEIVO	

21
20
20
20
20
20
20
21
20
21
21

HMIZSFIX2

21



Access an all-in-one customized online experience and benefit from tailored business services, resources, and tools to efficiently support your business operations.

- Efficiency: In just a few clicks, find all the information and support you need to get the job done.
- Simplicity: Use a single login to access all business services, in one place, available 24/7. You no longer need to log in to multiple platforms.
- Personalization: Benefit from content, tools, and business services tailored to your activity, and customize your landing page based on your preferences.

#### Watch the How-to Videos



Order management

- > Select Products and Add to Cart
- > Check for Products' Price and Availability
- > Order Products with Generic Commercial References



Product information

- > Find a Product Data Sheet and Related Documents
- > Select Products and Add to Cart
- > Stay Up to Date on the Status of My Products



Support

> Get Quicker Answers
Thanks to Online Support



Training

Access Trainings Dedicated to My Activity

Create your account

Life Is On Schneider

# Legal information

The information provided in this Catalog contains description of Schneider Electric products, solutions and services ("Offer") with technical specifications and technical characteristics of the performance of the corresponding Offer.

The content of this document is subject to revision at any time without notice due to continued progress in methodology, design and manufacturing.

To the extent permitted by applicable law, no responsibility or liability is assumed by Schneider Electric and its subsidiaries for any type of damages arising out of or in connection with (i) informational content of this Catalog not conforming with or exceeding the technical specifications, or (ii) any error contained in this Catalog, or (iii) any use, decision, act or omission made or taken on basis of or in reliance on any information contained or referred to in this Catalog.

SCHNEIDER ELECTRIC MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO WHETHER THIS CATALOG OR ANY INFORMATION CONTAINED THEREIN SUCH AS PRODUCTS AND SERVICES WILL MEET REQUIREMENTS, EXPECTATIONS OR PURPOSE OF ANY PERSON MAKING USE THEREOF.

Schneider Electric brand and any trademarks of Schneider Electric and its subsidiaries referred to in this Catalog are property of Schneider Electric or its subsidiaries. All other brands are trademarks of their respective owners.

This Catalog and its content are protected under applicable copyright laws and provided for informative use only. No part of this Catalog may be reproduced or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), for any purpose, without the prior written permission of Schneider Electric.

Copyright, intellectual, and all other proprietary rights in the content of this Catalog (including but not limited to software, audio, video, text, and photographs) rests with Schneider Electric or its licensors. All rights in such content not expressly granted herein are reserved. No rights of any kind are licensed or assigned or shall otherwise pass to persons accessing this information.







Learn more about our products at www.se.com/hmi

Design: Schneider Electric Photos: Schneider Electric

#### **Schneider Electric Industries SAS**

Head Office 35, rue Joseph Monier - CS 30323 F-92500 Rueil-Malmaison Cedex France

DIA5ED2181202EN August 2024 - V6.1