



# Harmony ST6

High-resolution and cost-efficient  
basic HMI



# Harmony

## 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

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**Schneider**  
Electric

# Quick access to product information

## Get technical information about your product

**References**

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

| References                                  | Input range  | Output range                        | Resolution                    | Input terminal block (T) | Reference | Weight |
|---|--|-------------------------------------|-------------------------------|--------------------------|-----------|--------|
| 2 voltage/current inputs                    | -15...+15 VDC<br>0...+10 VDC<br>0...20 mA A...20 mA  | 15 000 mV<br>15 000 mV<br>11 000 mV | 12 bits<br>12 bits<br>12 bits | 0 580 0 2                | TM3AI2H   | 0 150  |
| 4 voltage/current inputs                    | -15...+15 VDC<br>0...+10 VDC<br>0...20 mA A...20 mA  | 15 000 mV<br>11 000 mV<br>11 000 mV | 12 bits<br>12 bits<br>12 bits | 0 580 0 2                | TM3AI4H   | 0 230  |
| 4 voltage/current or temperature inputs (T) | Thermocouples (T)<br>J, K, R, S, E, T, N, B, C<br>Temperature inputs<br>(PT100, PT500, PT1000)<br>0...+10 VDC<br>0...20 mA A...20 mA | 15 000 mV<br>15 000 mV<br>11 000 mV | 12 bits<br>12 bits<br>12 bits | 0 580 0 2                | TM3AI4H   | 0 230  |
| 4 differential temperature inputs           | Thermocouples (T)<br>J, K, R, S, E, T, N, B, C<br>Temperature inputs<br>(PT100, PT500, PT1000)<br>0...+10 VDC<br>0...20 mA A...20 mA | 15 000 mV<br>15 000 mV<br>11 000 mV | 12 bits<br>12 bits<br>12 bits | 0 580 0 2                | TM3AI4H   | 0 230  |
| 4 differential temperature inputs           | Thermocouples (T)<br>J, K, R, S, E, T, N, B, C<br>Temperature inputs<br>(PT100, PT500, PT1000)<br>0...+10 VDC<br>0...20 mA A...20 mA | 15 000 mV<br>15 000 mV<br>11 000 mV | 12 bits<br>12 bits<br>12 bits | 0 580 0 2                | TM3AI4H   | 0 230  |

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All products Industrial Automation and Control PLC, PAC and Distributed Controllers Distributed Input/Output (I/O) Modules Modicon TM3

TM3AI2H

Module TM3-2 analog inputs high resolution

Show more characteristics >

Related Software >

Product Datasheet User guide Datasheet CAD Document

Characteristics Documents and Downloads Technical FAQs Additional Information Dimensions Drawings >

Main

range of product Modicon TM3

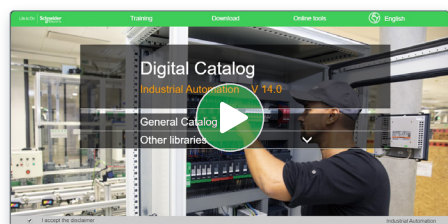
product or component type Analog input module

range compatibility Modicon M51 Modicon M21 Modicon M241

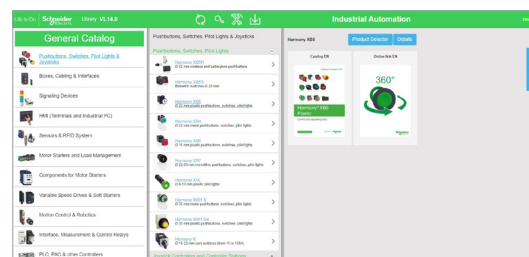
Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

- 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](#)

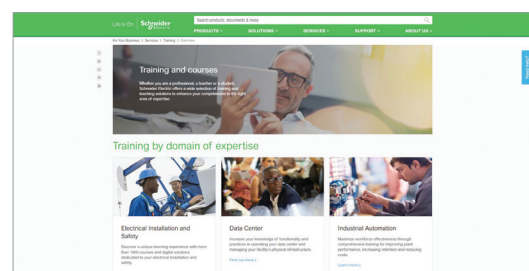


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## Harmony ST6 basic HMI panels

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## Harmony ST6

Basic, web, and modular HMI panels



Harmony ST6

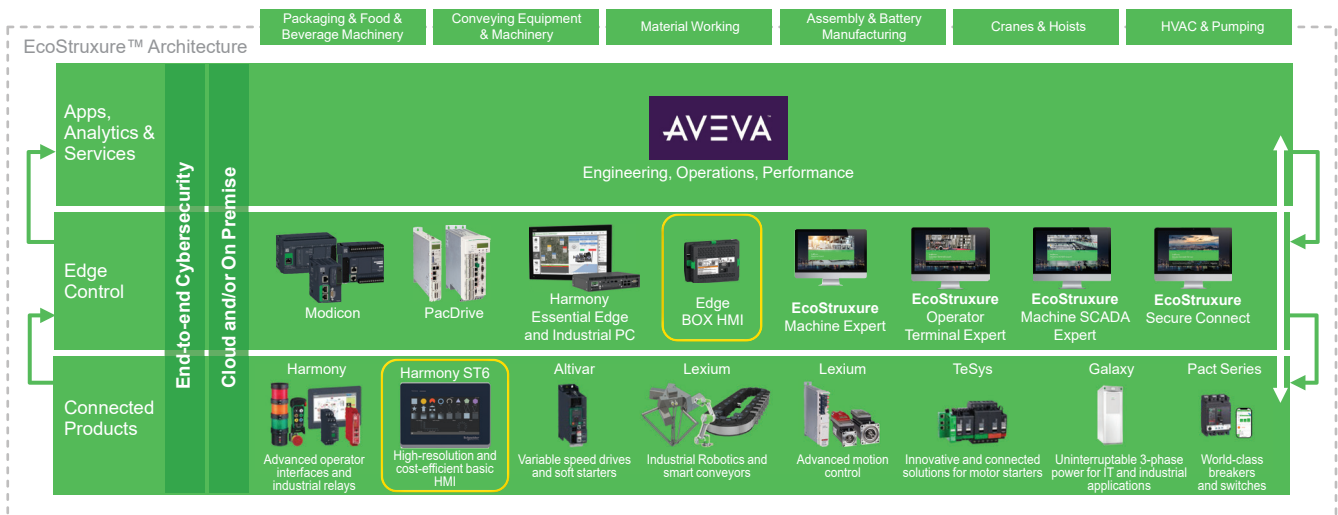
Harmony ST6 HMI panels range in sizes from 4" to 15" wide combining the exceptional quality of good graphics and stylish design. They are available in basic, modular, web and Edge Box. The ST6 and STM6 panels offer an improved user operation experience through an intuitive design powered by EcoStruxure 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.

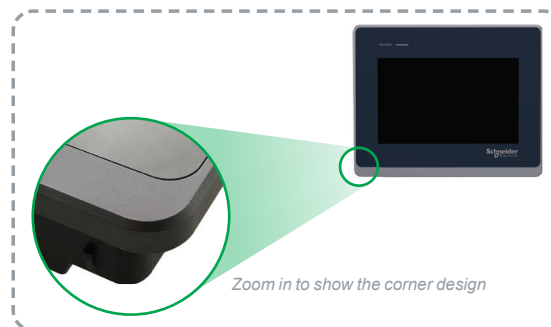
The Harmony ST6/STW6/STM6 and the Edge Box HMI versions meet IIoT challenges at the Connected Products level, by providing secure communication, connectivity, and efficiency to the required software and applications at the Edge Control level, thus opening more business opportunities.

**EcoStruxure™**  
Innovation At Every Level **for Industry**



## Refined hardware design

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

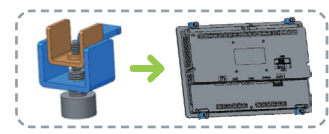
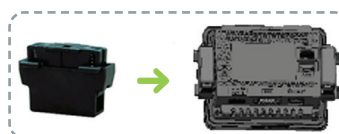


## Easy to install

- > 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**

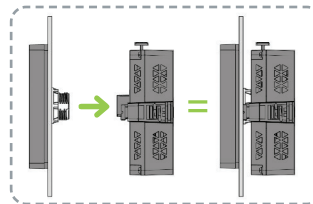
## Easy to install (continued)

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

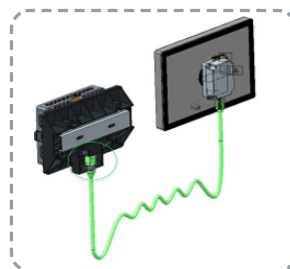


- > Easy like a pushbutton mounting for STM6 panels:

- 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



Truetype fonts



Gradient transparency



Anti-aliasing

- > Theme and color set for supporting situational awareness



Day mode



Custom mode



Night mode



Alarm mode

## Easy to use

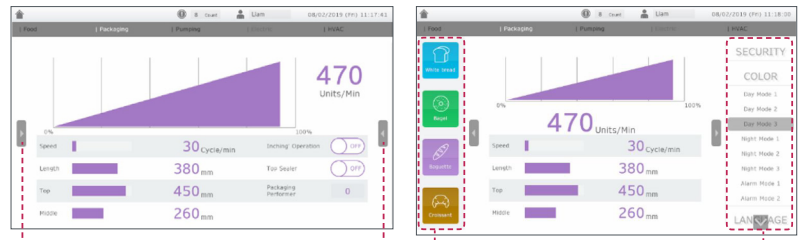
### Harmony ST6/STM6 basic HMI

- > 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



Click this tab

See more hidden information

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 remotely on PC/Tablet/Smartphone

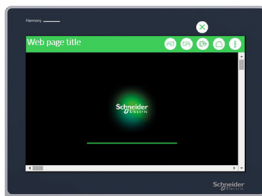


- > With Harmony STM6 Gateway Box and WebViewer function or with the Harmony Edge Box HMI and Mobile Access function, the new Harmony HMISTM6 can become a Faceless HMI for applications that doesn't need a full time operator screen

## 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 addresses
  - Visualization of all Web content of HTTP servers within industrial devices (1)



### Harmony Edge Box HMI

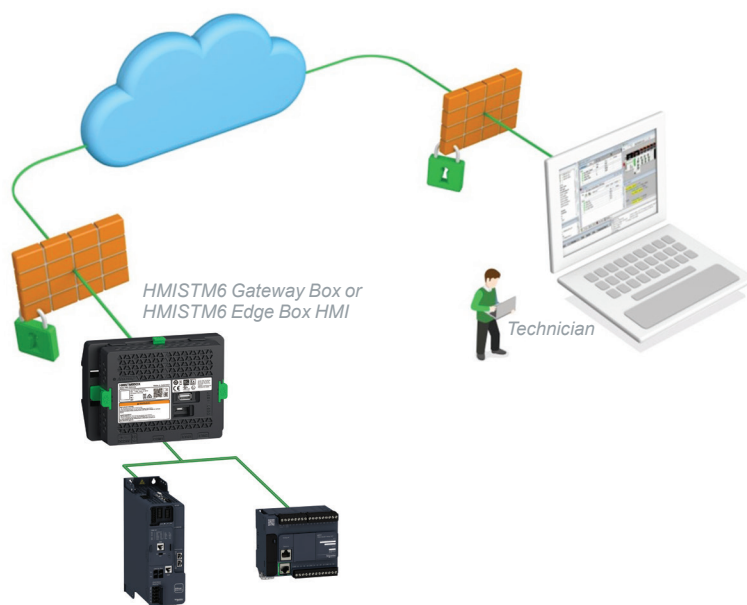
- > EcoStruxure Machine SCADA Expert functions enables storing data everywhere:
  - Easy settings of Data for Clouds like Azure, Amazon Web Services & Aveva Insight Links
  - Small Edge features with data stamping and data treatment (filter, convert, compute, condition) before transfer to the Cloud
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



Enhanced  
Cybersecurity

## 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.

**+** Uniquely positioned as "Connected Products" within EcoStruxure platform



Harmony ST6

High-resolution and cost-efficient basic HMI

Harmony ST6 Basic HMI panels

|  |                           |  |  |
|--|---------------------------|--|--|
| Applications                               |                           | Display of text messages, graphic objects, and synoptic views  |  |
| Type of display module                     |                           | Control and configuration of data  |  |
|  |                           | Basic HMI panels   |  |
|  |                           |   |  |
| 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 |
|  | Type                      | TFT Color LCD, single-touch analoge resistive  |  |
| Degree of protection                       |                           | IP65F, Type 1, Type 4X (indoor use only), Type 13 (on the front panel when properly installed in an enclosure)   |  |
| Functions                                  | Brightness control        | 16 levels (adjusted with touch panel or software)  |  |
|  | Backlight service life    | 50,000 hrs or more (until backlight brightness 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 $\overline{\text{---}}$   |  |
| Environment                                |                           | Ambient air temperature 0...50 °C/32...122 °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-B  |  |
|  | Buses and networks        | 1x Ethernet TCP/IP (10BASE-T/100BASE-TX)   | 2x Ethernet TCP/IP (10BASE-T/100BASE-TX)   |
| RTC  |                           | Yes  |  |
| Conformity to standards 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 software                       |                           | EcoStruxure Operator Terminal Expert (1)   |  |
| Terminal reference                         |                           | HMIST6200, HMIST6200FW (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 $\overline{\text{---}}$  |  |   |
| Ambient air temperature 0...50 °C/32...122 °F   |  |   |
| RS-232C (COM1), RS-485 (COM2)   | 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)                   | HMIST6700                                     |
| 19  |  |   |

Harmony ST6

High-resolution and cost-efficient basic HMI

Harmony STW6 Basic Web HMI panels

|  |                           |  |  |
|--|---------------------------|--|--|
| Applications                               |                           | Display of text messages, graphic objects, and synoptic views  |  |
| Type of display module                     |                           | Control and configuration of data  |  |
|  |                           | Basic Web HMI panels   |  |
|  |                           |   |  |
| 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                             |
|  | Type                      | TFT Color LCD, single-touch analog resistive   |  |
| Degree of protection                       |                           | IP65F, Type 1, Type 4X (indoor use only), Type 13 (on the front panel when properly installed in an enclosure)   |  |
| Functions                                  | Brightness control        | 16 levels (adjusted with touch panel or software)  |  |
|  | Backlight service life    | 50,000 hrs or more (until backlight brightness 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 $\overline{\text{---}}$   |  |
| Environment                                |                           | Ambient air temperature 0...50 °C/32...122 °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 standards 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 software                       |                           | 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)   |   |   |
| No   |   |   |
| 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  |

19



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

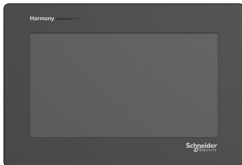
|                |  |              |
|----------------|--|--------------|
| Applications   | Display of text messages, graphic objects, and synoptic views<br>Control and configuration of data |              |
| Type of module | Basic Modular HMI Gateway Box  | Edge Box HMI |



|  |                             |   |                                      |
|--|-----------------------------|---|--------------------------------------|
| Display                                    | Touchscreen size            | –   |                                      |
|  | Resolution (pixels)         | –   |                                      |
|  | Type                        | –   |                                      |
| Degree of protection                       |                             | 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   |                                      |
|  | Cut-out (mm/in.)            | –   |                                      |
| Weight                                     | Display (kg/lb)             | –   |                                      |
|  | Rear (kg/lb)                | 0.456/ 1.005  |                                      |
| Supply voltage                             |                             | 24 V  |                                      |
| Environment                                |                             | Ambient air temperature 0...60 °C/32... 140 °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 standards 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, ATEX Zone2/22, Marine (2) |                                      |
| Operating system                           |                             | Harmony (800 MHz ARM Cortex-A8 CPU)   |                                      |
| Development software                       |                             | 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<br>Control and configuration of data |  |
| Basic Modular HMI panels   |  |



|   |  |
|---|--|
| 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 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  |  |
| 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)  |  |
| 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, ATEX Zone2/22, Marine (2) |  |
| Harmony (800 MHz ARM Cortex-A8 CPU)   |  |
| EcoStruxure Operator Terminal Expert (1)  |  |
| HMISTM6200, HMISTM6200FW (4)  | HMISTM6400, HMISTM6400FW (4)               |
| 19  |  |



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:

- EAC

#### ■ 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/s<sup>2</sup>, X, Y, Z directions for 10 cycles (approximately 100 minutes)

#### ■ Shock resistance

- IEC/EN 61131-2 compliant, 147 m/s<sup>2</sup>, 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

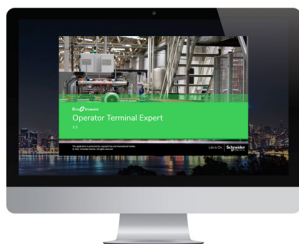
#### ■ Electrostatic discharge immunity

- 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



EcoStruxure Operator Terminal Expert



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.

(1) For supported models, please contact your local Schneider Electric support representative.  
 (2) 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

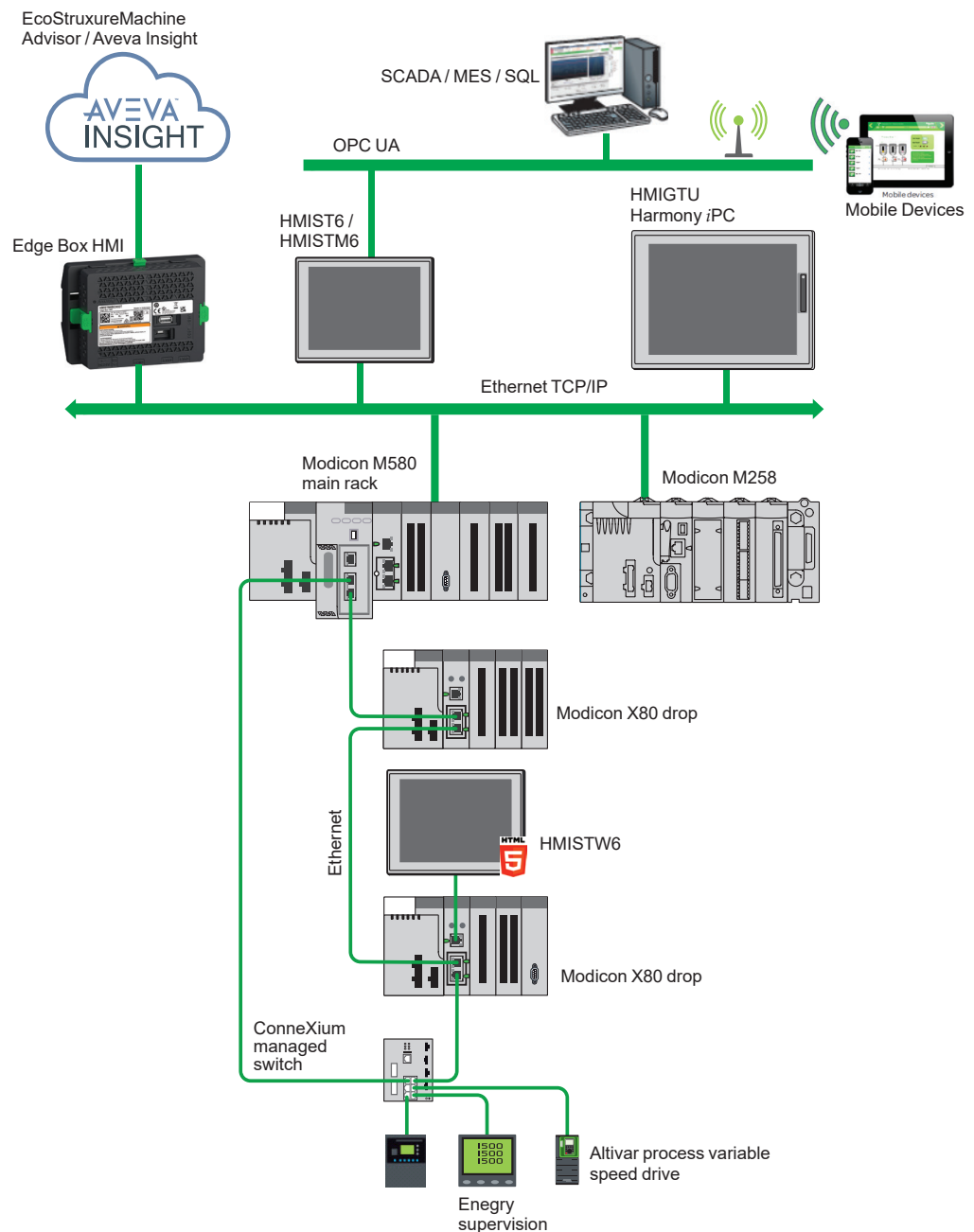
Harmony ST6 HMI panels communicate with PLCs via one or two integrated serial links, using the following communication protocols:

- 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.

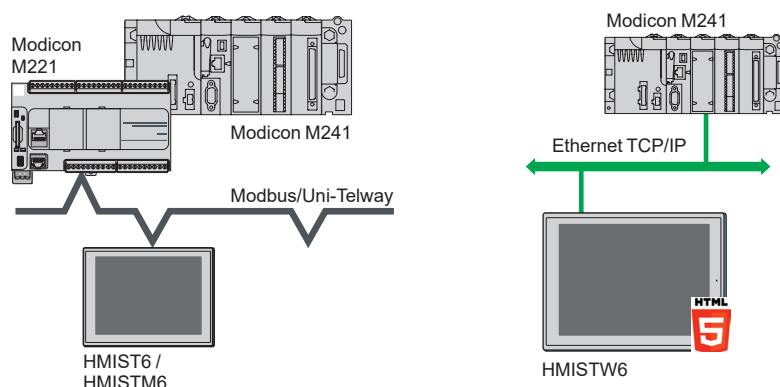
Depending on the model, they can be connected to Ethernet TCP/IP networks using one of the following:

- A Modbus TCP protocol
- A third-party protocol



Typical plant architecture

## Communication (continued)

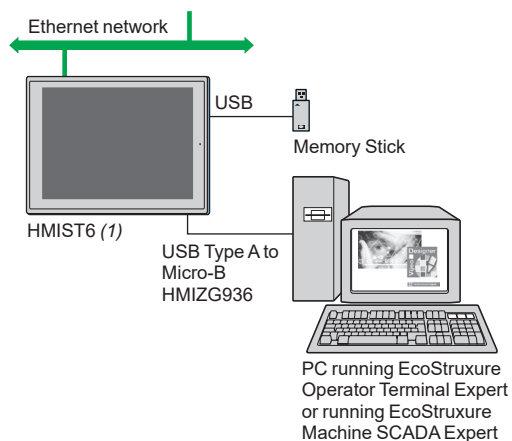


Simple machine architecture

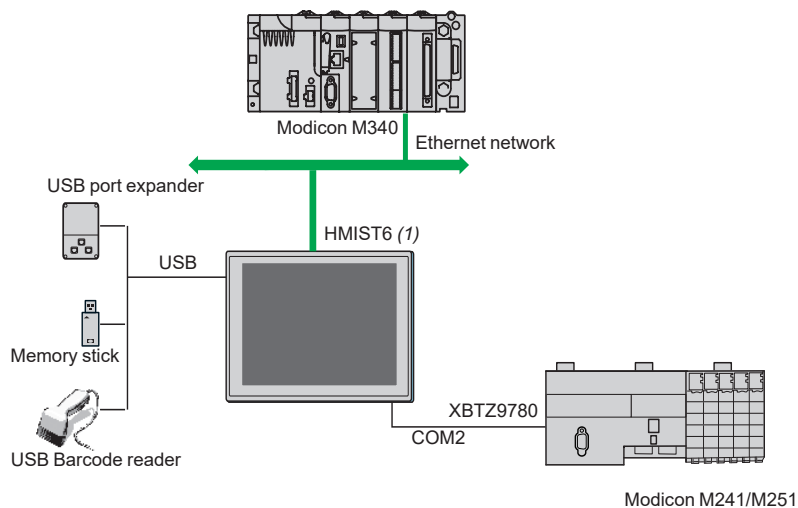
## Panel operating modes

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

### Edit mode



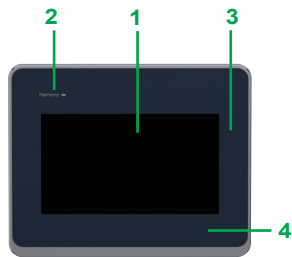
### Operating mode



(1) HMIST6/HMISTM6 panels.

# Harmony ST6

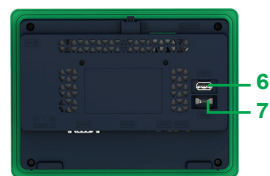
High-resolution and cost-efficient basic HMI  
Basic/Web panels with 4" and 7" touchscreens



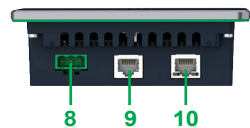
Front view



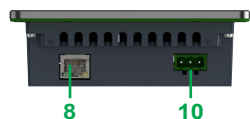
Top view of HMIST6200



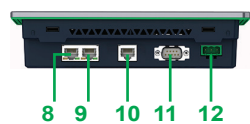
Rear view



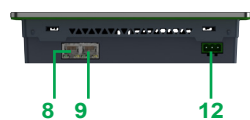
Underside view of HMIST6200



Underside view of HMISTW6200



Underside view of HMIST6400



Underside view of HMISTW6400

## 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

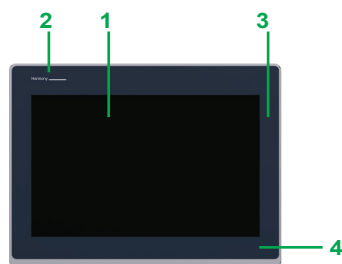
#### Underside view

- 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.

# Harmony ST6

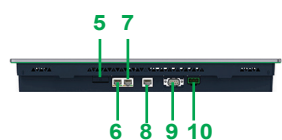
High-resolution and cost-efficient basic HMI  
Basic/Web panels with 10", 12", and 15" touchscreens



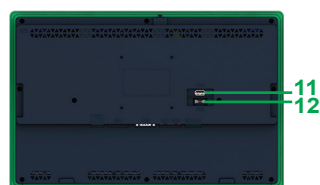
Front view



Top view



Underside view



Rear view

## Description

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

### Front view

- 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 HMIST6500FW Basic HMI panels

### Top view

- 5 Hook to hold panel in position during installation

### Underside view

- 6 Battery slot (1)
- 7 Ethernet interface (ETH2)
- 8 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.

# Harmony ST6

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

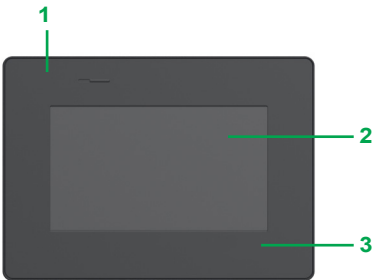
The modular Harmony STM6 version has:

- 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

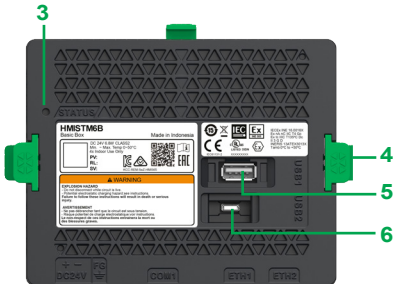


Front view of HMISTM62

## Rear module

### Front view

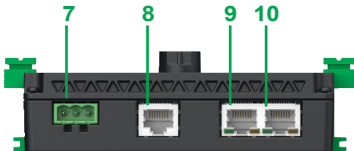
- 4 Status LED
- 5 Bumper
- 6 USB (Type A) interface
- 7 USB (micro-B) interface



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

## Modular panel: Display module + Rear module

- 12 Button to separate the rear module from display module



Side view of Modular panel

## HMISTM6 Gateway Box

- 13 DIN rail mount



HMISTM6BOX mounted on DIN rail

## 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

ST6\_6570\_CPMFS16002R



HMIST6400

ST6\_6570\_CPMFS18005R



HMIST6700

ST6\_6570\_CPMFS16002R



HMISTW6400

## Harmony ST6 Basic HMI panels

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

## Harmony STW6 Web HMI panels

| Data entry method | Size    | Resolution (pixels) | Colors            | Device memory | User data memory | Number of ports       | Reference                  | Weight kg/lb |
|-------------------|---------|---------------------|-------------------|---------------|------------------|-----------------------|----------------------------|--------------|
| Via touchscreen   | 4.3" W  | 480 x 272           | 16 million colors | 512 MB        | 512 MB           | 2x USB<br>1x Ethernet | <a href="#">HMISTW6200</a> | 0.400/0.880  |
|                   | 7" W    | 800 x 480 WVGA      | 16 million colors | 512 MB        | 512 MB           | 2x USB<br>2x Ethernet | <a href="#">HMISTW6400</a> | 0.800/1.760  |
|                   | 10.1" W | 1,024 x 600 WSVGA   | 16 million colors | 512 MB        | 512 MB           | 2x USB<br>2x Ethernet | <a href="#">HMISTW6500</a> | 1.300/2.870  |
|                   | 12.1" W | 1,280 x 800 WXGA    | 16 million colors | 512 MB        | 512 MB           | 2x USB<br>2x Ethernet | <a href="#">HMISTW6600</a> | 1.800/3.970  |
|                   | 15.6" W | 1,366 x 768 FWXGA   | 16 million colors | 512 MB        | 512 MB           | 2x USB<br>2x Ethernet | <a href="#">HMISTW6700</a> | 2.700/5.950  |

T6\_6570\_CPMFS18005R



HMISTW6700

STM6\_CP20077



HMISTM6200

## Harmony STM6 Modular HMI panels

| Data entry method | Size   | Resolution (pixels) | Colors            | Device memory | Application memory | Number of ports                  | Reference  | Weight kg/lb |
|-------------------|--------|---------------------|-------------------|---------------|--------------------|----------------------------------|--|--------------|
| Via touchscreen   | 4.3" W | 480 x 272           | 16 million colors | 1 GB          | 128 MB             | 2x USB<br>2x Ethernet<br>1x COM1 | <a href="#">HMISTM6200</a><br><a href="#">HMISTM6200FW</a> | 0.490/1.080  |
|                   | 7" W   | 800 x 480 WVGA      | 16 million colors | 1 GB          | 128 MB             | 2x USB<br>2x Ethernet<br>1x COM1 | <a href="#">HMISTM6400</a><br><a href="#">HMISTM6400FW</a> | 0.760/1.675  |

STM6\_CP20080



HMISTM6400

STM6\_CP20081



HMISTM6BOX

## Harmony Edge Box HMI

| Product type    | Operating system | Device memory | Application memory | Number of ports                  | Reference                     | Weight kg/lb |
|-----------------|------------------|---------------|--------------------|----------------------------------|-------------------------------|--------------|
| Modular HMI box | Linux            | 1 GB          | 128 MB             | 2x USB<br>2x Ethernet<br>1x COM1 | <a href="#">HMISTM6BOX</a>    | 0.456/1.005  |
| Edge Box HMI    | Linux            | 1 GB          | 128 MB             | 2x USB<br>2x Ethernet<br>1x COM1 | <a href="#">HMISTM6BOXIOT</a> | 0.456/1.005  |

# Harmony ST6

## High-resolution and cost-efficient basic HMI

### Accessories

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

| Accessories                            |  |                        |                            |              |
|--|--|------------------------|----------------------------|--------------|
| Description                            | Characteristics  | Compatible with panels | Reference                  | Weight kg/lb |
| <b>USB panel-mount extension cable</b> | Extension cable of 1 m/3.28 ft for connecting USB interface to front panel     | —                      | <a href="#">HMIZSUSBB2</a> | —            |
| <b>USB front cable</b>                 | Extension cable that attaches USB interface to front panel                     | —                      | <a href="#">XBTZGUSB</a>   | —            |
| <b>USB Type A clamp (1 port)</b>       | Clamp to prevent disconnection of USB cable (USB Type A, 1 port), 5 clamps/set | —                      | <a href="#">HMIZGCLP1</a>  | —            |

PF121305



HMIZSUSBB2

PF110386C



HMIZG60W

PF153918A



XBTZ3002

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

**Note:** The accessories and separate parts may be changed or discontinued without notice. Please check our website [www.se.com](http://www.se.com) for the latest information.

# Harmony ST6

## High-resolution and cost-efficient basic HMI

### Accessories

STM6\_CP20079



HMISTM6B

STM6\_CP20076



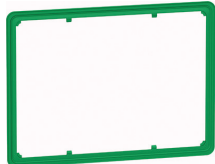
HMISTM64

STM6\_65770\_CPMFS18011A



HMIZSFIXTF1

STM6\_65770\_CPMFS18007A



HMIZS53W1

STM6\_CP20074



HMIZM6DSA

STM6\_CP20078



HMIZM6RDP5

#### Spare parts

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

#### Separate parts

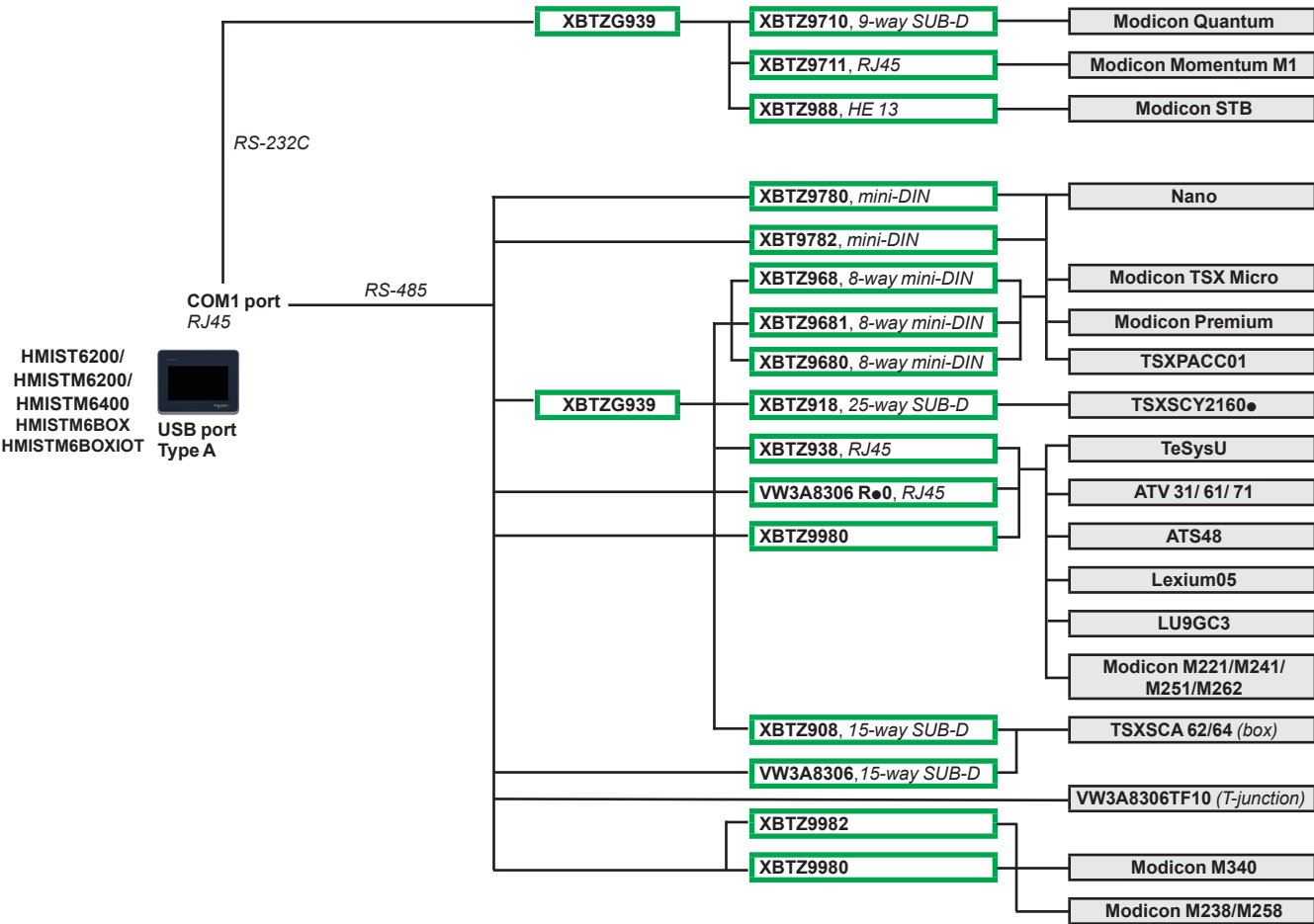
| Description   | Characteristics   | Compatible with panels | Reference                   | Weight kg/lb |
|---|---|------------------------|-----------------------------|--------------|
| <b>Rear module installation adapter</b>                             | Adapter for installing the rear module on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

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

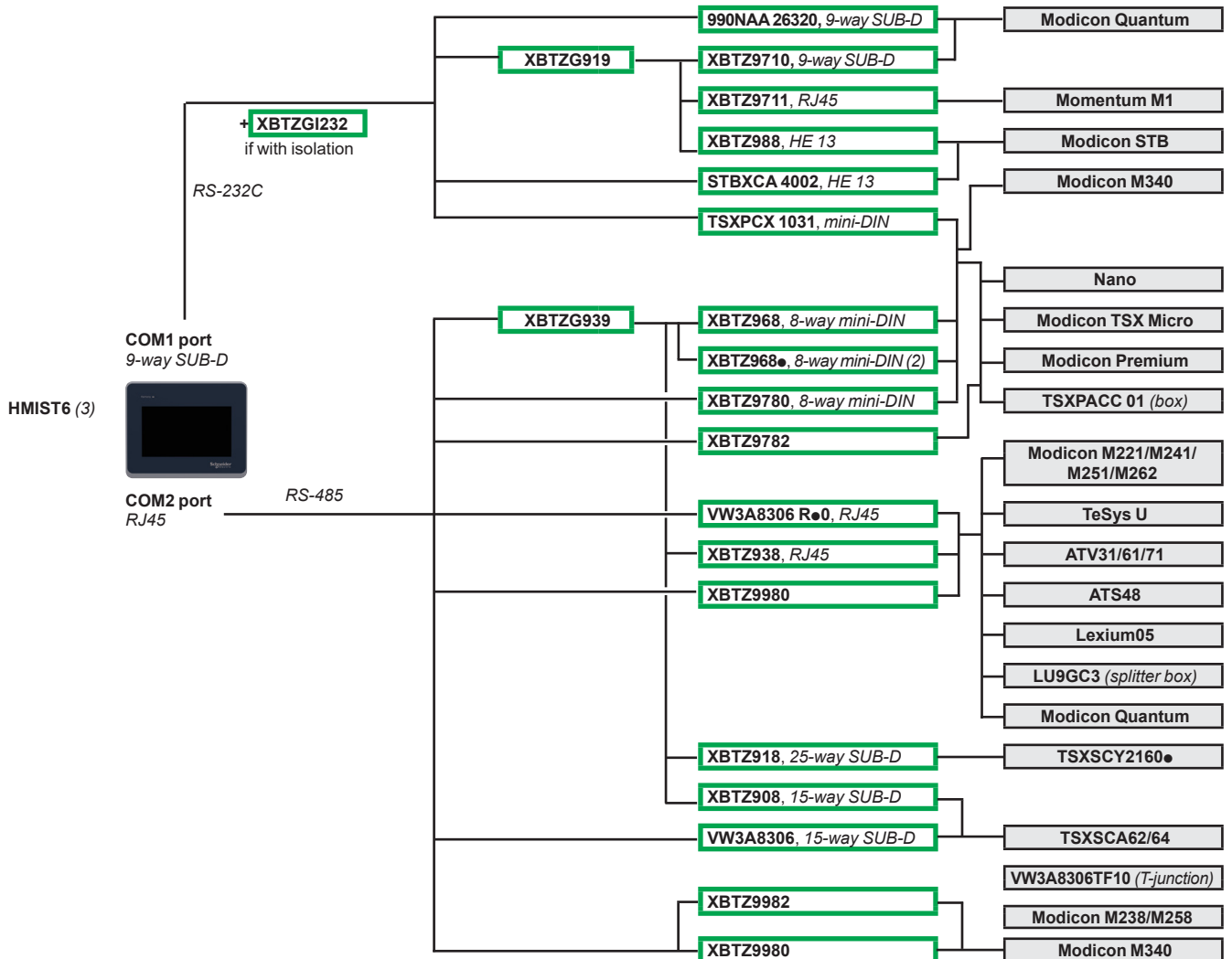
(2) USB Clamp mini-B can be used for optional USB micro-B cables.

**Note:** The spare and separate parts may be changed or discontinued without notice. Please check our website [www.se.com](http://www.se.com) for the latest information.

HMIST6 panels and Schneider Electric products



## HMIST6 panels and Schneider Electric products



(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

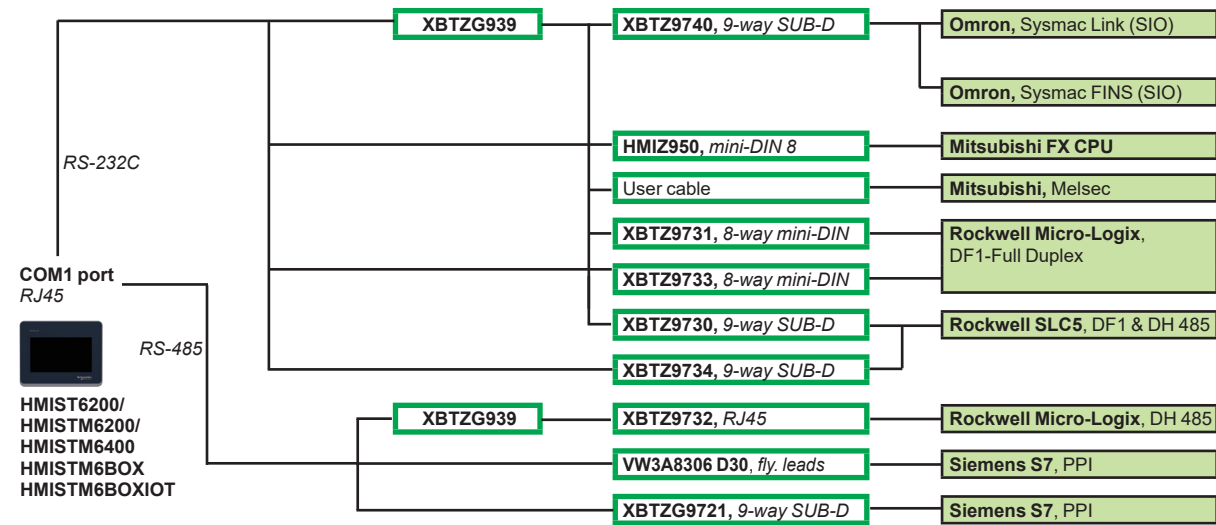
- 7: 20 m/65.6 ft

- 8: 25 m/82 ft

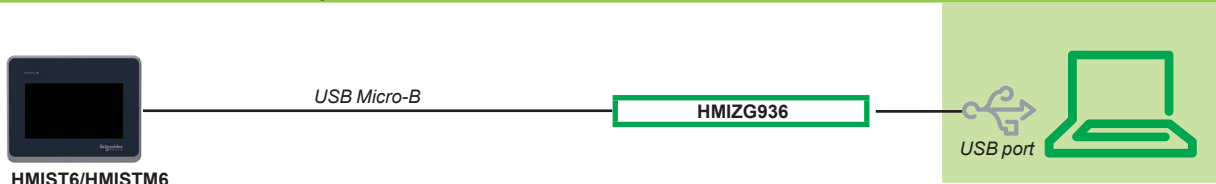
(3) Except HMIST6200.



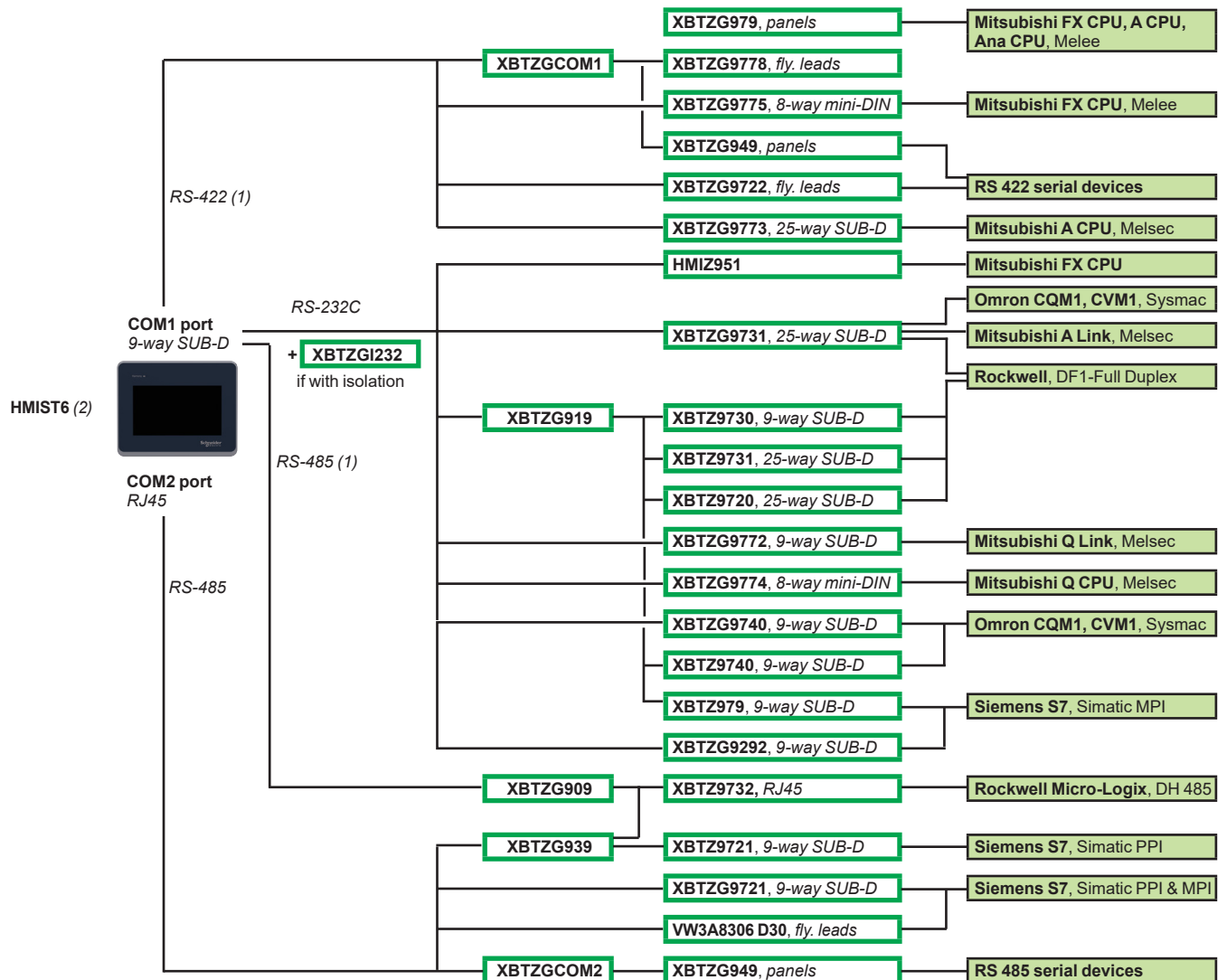
HMIST6 panels and third-party PLCs



Application transfer from HMIST6 panels to PC



### HMIST6 panels and third-party PLCs



(1) RS-422 and RS-425 not available on HMIST6 (COM1).

(2) Except HMIST6200.

|                      |    |                    |    |
|----------------------|----|--------------------|----|
| <b>H</b>             |    | <b>HMIZSFIXTF1</b> | 21 |
| <b>HMIST6200</b>     | 19 | <b>HMIZSUSBB2</b>  | 20 |
|                      | 20 | <b>X</b>           |    |
|                      | 21 | <b>XBTZ3002</b>    | 20 |
| <b>HMIST6200FW</b>   | 19 | <b>XBTZG919</b>    | 20 |
| <b>HMIST6400</b>     | 19 | <b>XBTZG939</b>    | 20 |
|                      | 20 | <b>XBTZGCOM1</b>   | 20 |
|                      | 21 | <b>XBTZGI485</b>   | 20 |
| <b>HMIST6500</b>     | 19 | <b>XBTZGPWS1</b>   | 21 |
|                      | 20 | <b>XBTZGUSB</b>    | 20 |
|                      | 21 | <b>Z</b>           |    |
| <b>HMIST6500FW</b>   | 19 | <b>ZB5AZ901</b>    | 21 |
| <b>HMIST6600</b>     | 19 | <b>ZB5AZ905</b>    | 21 |
|                      | 20 |                    |    |
|                      | 21 |                    |    |
| <b>HMIST6600FW</b>   | 19 |                    |    |
| <b>HMIST6700</b>     | 19 |                    |    |
|                      | 20 |                    |    |
|                      | 21 |                    |    |
| <b>HMISTM62</b>      | 21 |                    |    |
| <b>HMISTM6200</b>    | 19 |                    |    |
|                      | 20 |                    |    |
|                      | 21 |                    |    |
| <b>HMISTM6200FW</b>  | 19 |                    |    |
| <b>HMISTM64</b>      | 21 |                    |    |
| <b>HMISTM6400</b>    | 19 |                    |    |
|                      | 20 |                    |    |
|                      | 21 |                    |    |
| <b>HMISTM6400FW</b>  | 19 |                    |    |
| <b>HMISTM6B</b>      | 21 |                    |    |
| <b>HMISTM6BOX</b>    | 19 |                    |    |
| <b>HMISTM6BOXIOT</b> | 19 |                    |    |
| <b>HMISTW6200</b>    | 19 |                    |    |
|                      | 20 |                    |    |
|                      | 21 |                    |    |
| <b>HMISTW6400</b>    | 19 |                    |    |
|                      | 20 |                    |    |
|                      | 21 |                    |    |
| <b>HMISTW6500</b>    | 19 |                    |    |
|                      | 20 |                    |    |
|                      | 21 |                    |    |
| <b>HMISTW6600</b>    | 19 |                    |    |
|                      | 20 |                    |    |
|                      | 21 |                    |    |
| <b>HMISTW6700</b>    | 19 |                    |    |
|                      | 20 |                    |    |
|                      | 21 |                    |    |
| <b>HMIZD66W</b>      | 20 |                    |    |
| <b>HMIZG60W</b>      | 20 |                    |    |
| <b>HMIZG63W</b>      | 20 |                    |    |
| <b>HMIZG65W1</b>     | 20 |                    |    |
| <b>HMIZG67W</b>      | 20 |                    |    |
| <b>HMIZGCLP1</b>     | 20 |                    |    |
| <b>HMIZM6DSA</b>     | 21 |                    |    |
| <b>HMIZM6KIT</b>     | 21 |                    |    |
| <b>HMIZM6MP2</b>     | 21 |                    |    |
| <b>HMIZM6MP4</b>     | 21 |                    |    |
| <b>HMIZM6RDP10</b>   | 21 |                    |    |
| <b>HMIZM6RDP3</b>    | 21 |                    |    |
| <b>HMIZM6RDP5</b>    | 21 |                    |    |
| <b>HMIZS51W1</b>     | 21 |                    |    |
| <b>HMIZS51W2</b>     | 21 |                    |    |
| <b>HMIZS53W1</b>     | 21 |                    |    |
| <b>HMIZS53W2</b>     | 21 |                    |    |
| <b>HMIZS55W1</b>     | 21 |                    |    |
| <b>HMIZS56W1</b>     | 21 |                    |    |
| <b>HMIZS57W1</b>     | 21 |                    |    |
| <b>HMIZSBA1</b>      | 21 |                    |    |
| <b>HMIZSFIX2</b>     | 21 |                    |    |

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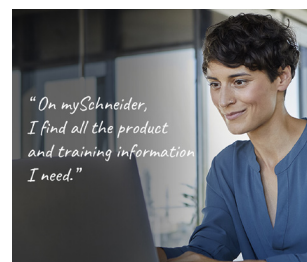
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DIA5ED2181202EN  
August 2024 - V6.1