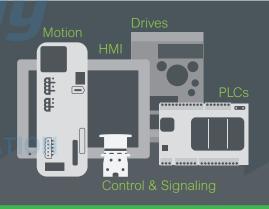
CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG Catalog | June 2021



Introducing the Easy Series

Essential automation & control products

When just enough is just right!



Easy Harmony ET6

Human Machine Interfaces Essential touch screen panels for simple machines



Life Is On Schneider

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Human Machine Interfaces TY Cổ PHẨN CÔNG NGHỆ HỢP LONG

Easy Harmony ET6

Essential touch screen panels for simple machines

Display of text messages, graphic objects, and synoptic views Control and configuration of data Applications Type of display modul





Display	Touch screen size	7" W	10.1" W				
	Resolution (pixels)	800 x 480 pixels, 16 million colors	1,024 x 600 pixels, 16 million colors				
	Туре	TFT Color LCD, single-touch analog resis	TFT Color LCD, single-touch analog resistive				
Degree of protectio	n	IP65 (front)	IP65 (front)				
Functions	Brightness control	16 levels (adjusted with touch panel or sof	16 levels (adjusted with touch panel or software)				
	Backlight service life	20,000 hours or more (continuous operation decreases to 50%	20,000 hours or more (continuous operation at 25 °C/77 °F) before backlight brightness decreases to 50%				
Memory	Device memory	256 MB	256 MB				
User data memory		256 MB	256 MB				
Backup memory		128 KB NVRAM					
Dimensions	External W × H × D mm/in.	205.5 x 150.5 x 45/8.09 x 5.92 x 1.77	270.5 x 200.5 x 47/10.64 x 7.89 x 1.85				
Cut-out W × H mm/in. Weight kg/lb Supply voltage		190 x 135/7.48 x 5.31	255 x 185/10.04 x 7.28				
		0.600/1.323	0.980/2.161				
		19.2 V28.8 V 					
Environment		Ambient air temperature 050 °C/3212					
Communication	Asynchronous serial link	RS-232C (COM1), RS-485/RS-422 (COM	12)				
USB ports		1x USB 2.0 Micro-B					
	Buses and networks	No	No				
२ ТС		Yes					
Conformity to stand	dards and certifications	C€, China RoHS, and UL 61010-2-201					
Operating system		VxWorks					
Development softw	are	Vijeo Designer Basic (1)					
Terminal reference		HMIET6401	HMIET6501				
Pages		9					

(1) Requires Vijeo Designer Basic V1.2. For more information on Vijeo Designer, please refer to the DIA5ED2130614EN catalog.

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









800 x 480 pixels, 16 million colors	1,024 x 600 pixels, 16 million colors	1,280 x 800 pixels, 16 million colors	1,366 x 768 pixels, 16 million colors

TFT Color LCD, single-touch analog resistive

IP65 (front), Type 4X (indoor use only)

16 levels (adjusted with touch panel or software)

20,000 hours or more (continuous operation at 25 °C/77 °F) before backlight brightness decreases to 50%

256 MB 256 MB

128 KB NVRAM

205.5 x 150.5 x 45/8.09 x 5.92 x 1.77	270.5 x 200.5 x 47/10.64 x 7.89 x 1.85	310.5 x 232.5 x 50/12.22 x 9.5 x 1.97	412 x 268 x 50/16.22 x 10.55 x 1.97
190 x 135/7.48 x 5.31	255 x 185/10.04 x 7.28	295 x 217/11.61 x 8.54	394 x 250/15.51 x 9.84
0.610/1.344	0.990/2.183	1.620/3.571	2.520/5.556

19.2 V...28.8 V ==

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

RS-232C (COM1), RS-485/RS-422 (COM2) 1x USB 2.0 (Type A), 1x USB 2.0 Micro-B

1x Ethernet TCP/IP (10BASE-T/100BASE-TX)

C€, China RoHS and UL 61010-2-201

VxWorks

Vijeo Designer Basic (1)

	HMIET6400	HMIET6500	HMIET6600	HMIET6700
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General presentationTY CO PHathan Mathire Interfaces

Easy Harmony ET6

Essential touch screen panels for simple machines

Essential touch screen panels for communication with simple machine systems

Easy Harmony ET6 essential touch screen panels are entry-level products that are tailored to meet the specific requirements of new economies. These panels are designed to communicate with simple machine systems for human machine interaction.



Better visualization

Improved graphical presentation of the machine information with:

- Better quality of graphic display with high resolution (over 30% higher than legacy) (1)
- More colorful with 16 million colors

Better performance

Improved user operation experience with:

- Faster micro processor unit for operational performance of screen changes, parts animations, and scripts, etc.
- More memory to design higher level applications with HD graphics, charts, recipes, and operation logs (alarm/event/data), etc.



- Product information via QR code scanning
- Easily mounted with anti-drop hooks
- Easy migration of legacy panels with compatible installation cut-out, communication ports, and configuration software
- Easy to set up and use with simplified and intuitive programming software (Vijeo Designer Basic) and an illustrated Online help for self-guided training



Anti-drop hooks

INDUSTRIAL AUTOMATION



Default coating



Clamp option for USB Type A



Clamp for USB Type B

- Designed with isolated power supply and enhanced protection on serial communication port for better EMC performance in harsh industrial environments.
- Designed with protection for reverse power connection against negligent miswiring
- PCBA default coating to be sustainable in harsh environment with high humidity
- USB clamps for stable USB cable connection

(1) Except 7" W panel.

Functions Description: References: page 6

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Easy Harmony ET6

Essential touch screen panels for simple machines



7" Wide and 10" Wide Easy Harmony ET6 touch screen panels

Presentation and applications

The range of Easy Harmony ET6 essential touch screen panels has been designed for various industrial production machines and system integration. They are dedicated to the following fields and types of machine:

- Utilities and engineering equipment
- □ Water pump
- ☐ Air conditioning (compressor, heat exchangers, chillers, etc)
- □ Mechanical parking system
- □ Crane
- □ Car washing equipment
- □ EV car charging pile
- Production machines
- ☐ Textile machinery (blowing, carding, winding, twisting, etc.)
- □ Packaging machinery (VFFS, wrapping, labelling, etc.)
- ☐ Material working (Metal, wood, stone and glass, etc.)
- □ Plastic and rubber (foaming, molding, extruding, etc.)
- □ Other segments (electronics, SEMICON, Li-battery, printing, etc.)

This range of panels is available with two different models of communication ports:

- ETH model with Ethernet port (7", 10", 12", and 15" wide screen)
- SIO model without Ethernet port (7" and 10" wide screen)

Schneider Electric About Configuration Tool 1 Data / Alarm 2 Web Gate / Communication 3 Security 4 Form Printing 5 Multimedia 6 Recipe 7

Example of project configuration

Operation

Easy Harmony ET6 touch screen panels are designed to meet the essential needs of information and communication technologies, which, depending on the model, include:

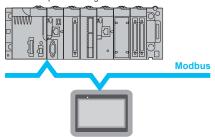
- Essential level of communication (serial multilink, USB downloading port)
- High level of communication (embedded Ethernet multilink) (1)
- External data storage (on a USB memory stick) for storing production data and backing up applications (1)
- Management of peripheral equipment: printers, barcode readers, etc. (1) These panels offer an excellent level of technical performance and are designed for use mainly by OEM customers.

Configuration

Easy Harmony ET6 touch screen panels are configured using Vijeo Designer Basic software(1) in Windows 7, Windows 8.1, and Windows 10 (32-bit and 64-bit) environments. This simplified configuration software boasts an intuitive user interface with many configurable windows, enabling projects to be developed quickly and easily.

Communication

Automation platform or logic controller



Easy Harmony ET6 panels

Easy Harmony ET6 touch screen panels can communicate with various PLCs via the integrated serial links or Ethernet links, using the following communication protocols:

- Schneider Electric (Modbus)
- Third-party: Mitsubishi Electric, Omron, and Siemens

(1) Requires Vijeo Designer Basic version 1.2

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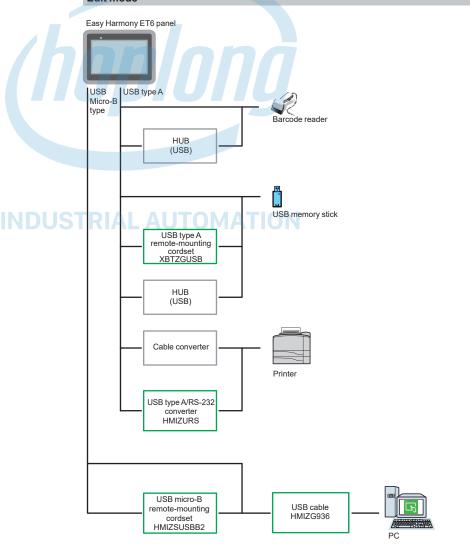
Easy Harmony ET6 Essential touch screen panels for simple machines

Functions

Easy Harmony ET6 touch screen panels with Vijeo Designer Basic offer the following functions:

- Display of animated mimics with 8 types of animation (pressing the touch panel, color changes, filling, movement, rotation, size, visibility, and value display)
- Control, modification of numeric and alphanumeric values
- Display of date and time
- Real-time curves and trend curves with log
- Alarm display, alarm log, and management of alarm groups
- Multi-window management
- Page calls initiated by the operator
- Multilingual application management (10 languages simultaneously)
- Recipe management
- Data processing via Java Script
- Application and logs stored on external application memory card in USB stick format
- Management of printer and barcode reader

Operating modes for Harmony ET6 touch screen panels **Edit mode**



Presentation:

Description

References:

Functions (confided) TY CO PHÂNMÂN (Machintellaces

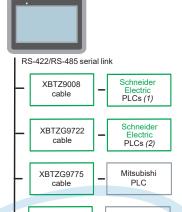
Easy Harmony ET6

Essential touch screen panels for simple machines

Operating modes for Harmony ET6 touch screen panels (continued)

Communication with RS-422/RS-485 serial link mode

Easy Harmony ET6 panels

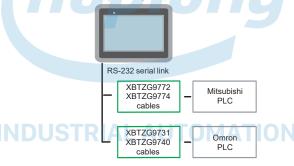


Examples of connection to RS-422/RS-485 serial port (3)

Communication with RS-232C serial link mode

Easy Harmony ET6 panels

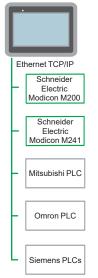
cable



Examples of connection to RS-232C (3)

Communication with Ethernet mode

Easy Harmony ET6 panels



- (1) M221/M241/M251/M218/M258 logic controllers.
- (2) M100/M200 logic controllers. For all other products, contact our Customer Care Center.
- (3) Non-exhaustive examples; contact our Customer Care Center for more information.

Presentation: page 5

Description:

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Description

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Easy Harmony ET6 Essential touch screen panels for simple machines ETH and SIO touch screen panels

Front view

Easy Harmony ET6 SIO touch screen panels

Front view

- An LED on/off indicator
- 2 Wide, true color LCD and touch screen

Rear view

3 USB micro-B port for screen data downloading



Rear view



Underside view

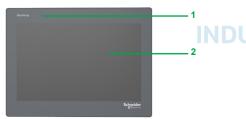


Underside view

- A 24 V DC power supply connector supplied with the terminal
- A 9-way male SUB-D connector for RS 232C serial link (COM1 port)
- 6 A 9-way male SUB-D connector for RS 422/RS 485 serial link (COM2 port)

Top view

7 A sliding slot containing a replaceable battery to support embedded real-time clock



Front view

Easy Harmony ET6 ETH touch screen panels

Front view

- An LED on/off indicator
- 2 Wide, true color LCD and touch screen



Rear view

Rear view

- 3 A USB type A port for external storage with USB memory stick
- 4 A USB micro-B port for screen data downloading





Top view

Underside view

- 5 A 24 V DC power supply connector supplied with the terminal
- 6 A 9-way male SUB-D connector for RS-422/RS-485 serial link (COM2 port)
- 7 A 9-way male SUB-D connector for RS-232C serial link (COM1 port)
- 8 An Ethernet port, 10/100Base-Tx type

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screen

Easy Harmony ET6

Essential touch screen panels for simple machines ETH and SIO touch screen panels and Vijeo Designer software



HMIET6501

Screen size	Number of ports	Memory capa	acity	Reference	Weight
and type		For application	For backup		kg/ <i>lb</i>
7" wide, 800 x 480 pixels, color TFT screen	1x COM2 (RS-422/485), 1x COM1 (RS-232C),	256 MB	128 KB	HMIET6401	0.60/1.32
10" wide, 1,024 x 600 pixels, color TFT	wide, 1x USB micro-B 24 x 600 els,			HMIET6501	0.98/2.16



HMIET6700

Easy Harr	nony ET6 ETI	H touch so	reen pane	els (1) (2)	
Screen size	Number of ports	Memory capa	city	Reference	Weight
and type		For application	For backup		kg/ <i>lb</i>
7" wide, 800 x 480 pixels, color TFT screen	1x COM1 (RS-232C), 1x COM2 (RS-422/485)	256 MB	128 KB	HMIET6400	0.61/1.34
10" wide, 1,024 x 600 pixels, color TFT screen	1x USB micro-B, 1x USB Type A, 1x 10/100 Base-Tx			HMIET6500	0.99/2.18
12" wide, 1,280 x 800 pixels, color TFT screen	UII			HMIET6600	1.62/3.57
15.6" wide, 1,366 x 768 pixels, color TFT screen				HMIET6700	2.52/5.56



Viieo Designer Basic

Configura	tion software	
Description	Used for	Reference
Vijeo Designer Basic (4)	Easy Harmony ET6 models	(3)

⁽¹⁾ Panels supplied with fixing screws, power supply connector, and instruction sheet. Setup documentation for Easy Harmony ET6 panels is included in electronic format with the Vijeo Designer Basic configuration software.
(2) Comprehensive information relating to Easy Harmony ET6 panels is available on our website.
(3) To download this software, visit our website www.se.com.

⁽⁴⁾ Requires software version 1.2. Cable for transferring application from PC to Easy Harmony ET6 panels (HMIZG936), to be ordered separately (see our website www.se.com).

References (confine) TY CO PHÂMAR Machitie Haterfaces

Easy Harmony ET6

Essential touch screen panels for simple machines Spare parts and connection accessories















Spare parts				
Description	Used for	Sold in lots of	Reference	Weight kg/ <i>lb</i>
Installation fastener	Used to install 7", 10", and 12" wide model into the solid panel	24 pieces/set	HMIZGFIX3	-
	Used to install 15.6" wide model into a solid panel	2 pieces/set	HMIZSFIXTF1	_
DC power supply connector	Connector for a DC power supply cable	5 pieces/set	HMIZGPWS1	_
Replacement battery	Primary battery for time data backup (RTC)	1 piece/set	HMIZSBA1	_
USB clamp Type A (for 1 port)	Clamp to prevent disconnection of USB cable	5 pieces/set	HMIZGCLP1	_
USB clamp mini-B/micro-B (for 1 port)	Clamp to prevent disconnection of USB cable	5 pieces/set	HMIZSCLP3	_
Screen protection sheet, disposable, dirt-resistant, and	Protection sheet for 7" wide screen	1 piece/set	HMIZG63W	_
ultra-violet protected	Protection sheet for 10" wide screen	1 piece/set	HMIZG65W1	_
	Protection sheet for 12" wide screen	1 piece/set	HMIZUV6W	-
	Protection sheet for 15.6" wide screen	1 piece/set	HMIZG67W	_

Connection accesso	ries			
Designation	Description	Length m/ft	Reference	Weight kg/ <i>lb</i>
USB (micro-B) front cable	Extension cable that attaches USB interface to HMI front panel	1.8/5.91	HMIZSUSBB2	0.230/0.507
USB (Type A) front cable	Extension cable that attaches USB interface to front panel	1/3.28	XBTZGUSB	0.507/1.118
USB transfer cable	Cable for transferring screen data from a PC (USB Type A) to HMI (USB micro-B)	1/3.28	HMIZG936	0.100/0.220
USB Type A port/9-way SUB-D converter for serial printer	Enables connection of an RS 232 serial link printer (9-way SUB-D) to the USB Type A port of Easy Harmony ET6 Ethernet panels	-	HMIZURS	-

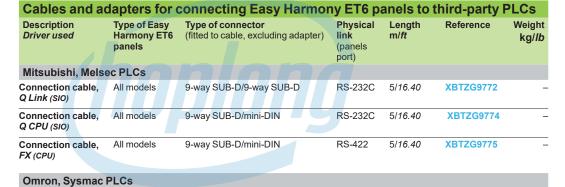
References (CÂMG-JY CỔ PHẨU MÂN CHỆT LẠI THE MACES

Easy Harmony ET6

Essential touch screen panels for simple machines Cables for third-party PLCs and Connection via Modbus serial link

Cables for cor	nnecting Ea	asy Harmony	ET6 panels	to Schn	eider Ele	ctric PLCs	
Type of automation product	Type of connector (automation product end)	Protocol	Type of Easy Harmony ET6 panels	Physical link (panels port)	Length m/ft	Reference	Weight kg/lb
Modicon M340 Modicon M218 Modicon M258 Modicon M221 Modicon M241 Modicon M251	RJ45	Modbus	All models	RS-485	2.5/8.20	XBTZ9008	_
Easy Modicon M100 Easy Modicon M200		Modbus	All models	RS-485	2.5/8.20	XBTZG9722	_
TeSys U/T starters Altivar drives Altistart starters Lexium motion control Preventa XPS MC	RJ45	Modbus	All models	RS-485	2.5/8.20	XBTZ9008	_







Connection cables, Link (SIO)	All models	models 9-way SUB-D/25-way SUB-D		5/16.40	XBTZG9731	-
	All models	9-way SUB-D/9-way SUB-D	RS-232C	5/16.40	XBTZG9740	_
Connection cable, FINS (SIO)	All models	9-way SUB-D/9-way SUB-D	RS-232C	5/16.40	XBTZG9740	_
Siemens, Simatio	PLCs					
Connection cables, MPI port, S7 200 S7 300/400	All models	9-way SUB-D/9-way SUB-D	RS - 485	-	(1)	_

RS-422

2.5/8.20

XBTZG9722

9-way SUB-D/flying leads



RS-422	at other end									
Connecting Easy Harmony ET6 panels via Modbus serial link										
Type of bus/ne	etwork Tap-off units	Connector (tap-off unit end)	Type of Easy Harmony ET6 panels	Length m/ft	Reference	Weight kg/ <i>lb</i>				
Modbus serial link	8-port Modbus splitter box LU9GC3 2-port	RJ45	All models	2.5/8.20	XBTZ9008	_				

(1) Customized cable.

Customizable cables Universal cable,

All models

tap junction

TWDXCAT3RJ

CÔNG TY CỔ PHẨ Machine Interfaces

Easy Harmony ET6 Product reference index

Н	
HMIET6400	g
HMIET6401	g
HMIET6500	g
HMIET6501	g
HMIET6600	g
HMIET6700	g
HMIZG63W	10
HMIZG65W1	10
HMIZG67W	10
HMIZG936	10
HMIZGCLP1	10
HMIZGFIX3	10
HMIZGPWS1	10
HMIZSBA1	10
HMIZSCLP3	10
HMIZSFIXTF1	10
HMIZSUSBB2	10
HMIZURS	10
HMIZUV6W	10
Х	
XBTZ9008	11
XBTZG9722	11
XBTZG9731	11

XBTZG9740

XBTZG9772

XBTZG9774

XBTZG9775

XBTZGUSB

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