

The state-of-the-art HMI that adapts to your needs



Magelis GTU, the high performance modular HMI panel

Schneider
Electric™

Everything you want

in an HMI to meet your
application requirements

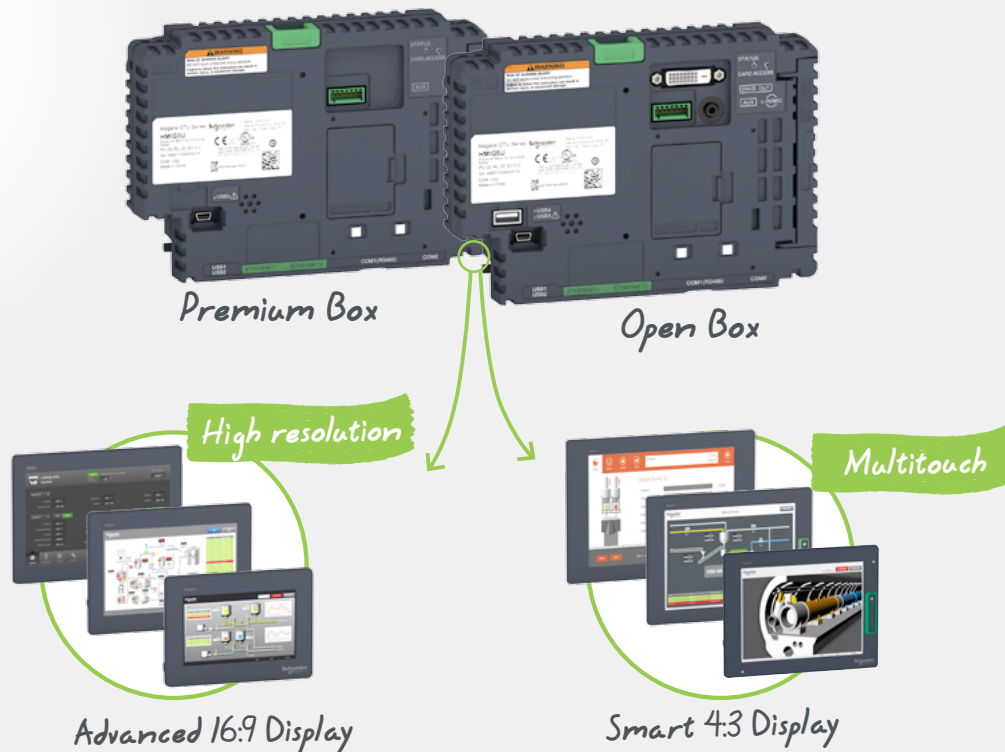
Meet Magelis GTU, the innovative HMI panel that delivers cutting-edge features inside an innovative modular body. Just snap together the display and panel box of your choice – and you have created the ideal HMI configuration for your applications, ready to install on your machine without the need for any special tools or accessories. Operating your Magelis GTU is a breeze, too, thanks to intuitive menus, navigation using unique industrial-grade multitouch functionality, as well as easy communication options, such as wireless and remote connectivity.



Your Magelis GTU comes as you like it

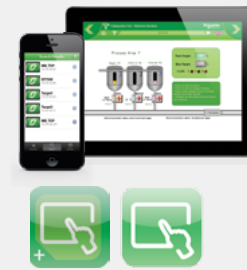
Build the HMI panel you have always wanted

The innovative design of Magelis GTU gives you a unique opportunity to create a state-of-the-art HMI configuration tailored to the specific requirements of your application. Define your preferred combination of panel box and different displays and build your perfect HMI, while keeping the number of references in your inventory to the minimum.



Powered by Vijeo Designer and Vijeo XD, Magelis GTU offers outstanding capabilities for remote connectivity and monitoring:

Mobile access:



Vijeo Design'Air mobile apps allow remote machine commissioning, as well as real-time monitoring and diagnostics.

USB accessories:

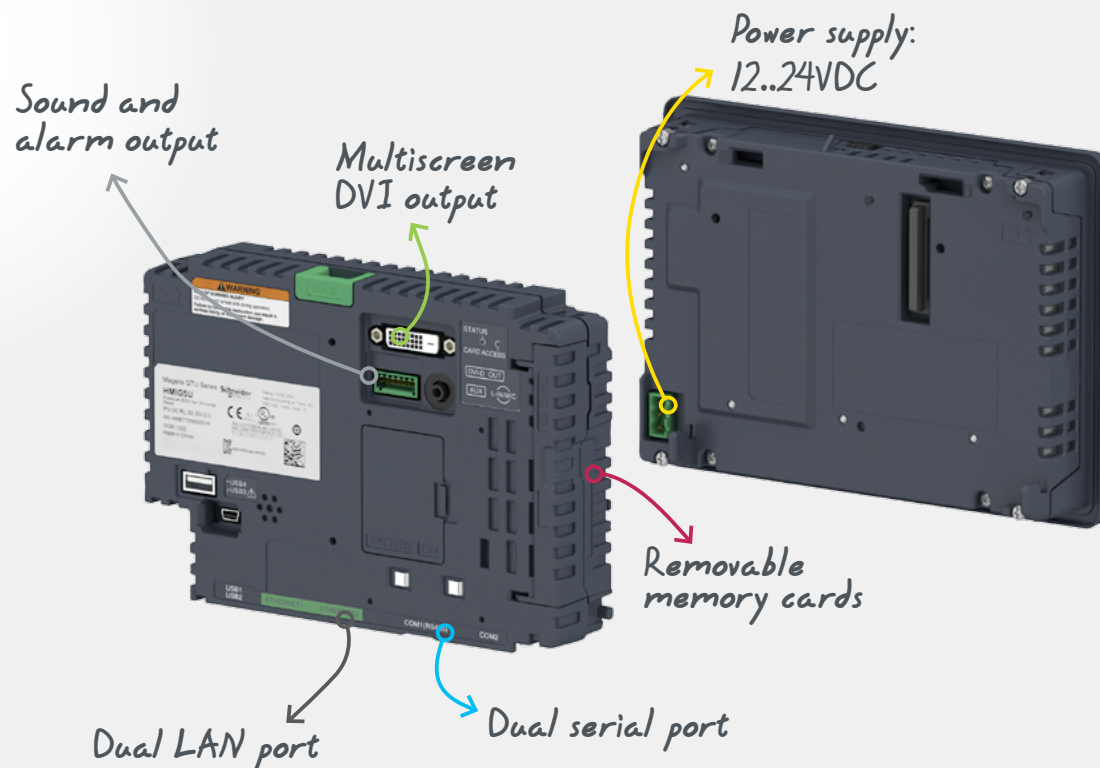


Get a clear view into your operations with a wide range of plug and play USB accessories that add functionality and reduce installation cost.

Your Magelis GTU comes as you like it

So many applications. One flexible HMI.

Whatever configuration you create, your Magelis GTU will provide a wealth of features for robust performance, open connectivity, and secure data flow.



- **Enhanced performance and security of data flow** with dual LAN to separate IT and PLC communication.
- **Open connectivity** with 2 serial ports with different signal types, 3 to 6 USB ports, optional interface for fieldbus, support of all main industrial protocols.
- **Easy maintenance** through dual removable storage units, one for system and one for user data.
- **Improved visibility of alarms** with sound speakers and alarm/buzzer output.
- **Reliable communication** in complex grounding applications, with isolation on the RJ45 –RS485 port.
- **Suitable for battery-powered applications** thanks to the 12-24VDC power supply.
- **Temperature range** from 0°C up to 60°C.

Industrial-grade multitouch, operable in gloves or through screen protection

Operate intuitively thanks to unique navigation functions


Magelis GTU delivers unmatched ease and comfort of use for both the application developer and operator. The beautiful high-resolution screen delivers crystal-clear view. Operators can access more information through Microsoft Windows based tools, including Office viewer, Adobe viewer, Internet Explorer, multimedia player, etc.



*Automatic
brightness*

Multitouch navigation allows you to view more information on a single page by scrolling, sliding, or zooming in and out.

Operable in gloves and through screen protection.

 **Navigate your HMI like a smartphone!**
Magelis GTU is as intuitive to use as your tablet or phone thanks to multitouch navigation and Vijeo XD software with easy view of trends and alarms.

Built for simplified and cost-efficient maintenance and upgrade

Maintain easily while saving time and money

Magelis GTU is optimized for Vijeo XD, the latest HMI configuration software from Schneider Electric. It also supports the current Vijeo Designer software. If in the future you decide to upgrade to the new software, you will be able to do it easily by simply converting and migrating your application from one software to the other.



Change display easily

With Magelis GTU, maintaining your HMI application is extremely easy. You can change the display size and type or replace it without any special tools. Your application will be resized automatically.

Copy data quickly

Thanks to front USB ports with IP 66/67 protection, you can access and copy HMI data conveniently at any moment without opening the cabinet door. If you need to replace the box or SD or CFast card, you can quickly extract data and restart the application. Using Vijeo XD online mode, you can upgrade your application with no downtime - just upload the required part of the project without stopping the machine.

Dual removable storage units

Replace a terminal while retaining data storage cards with application and user information.

The perfect fit for machine and plant architectures

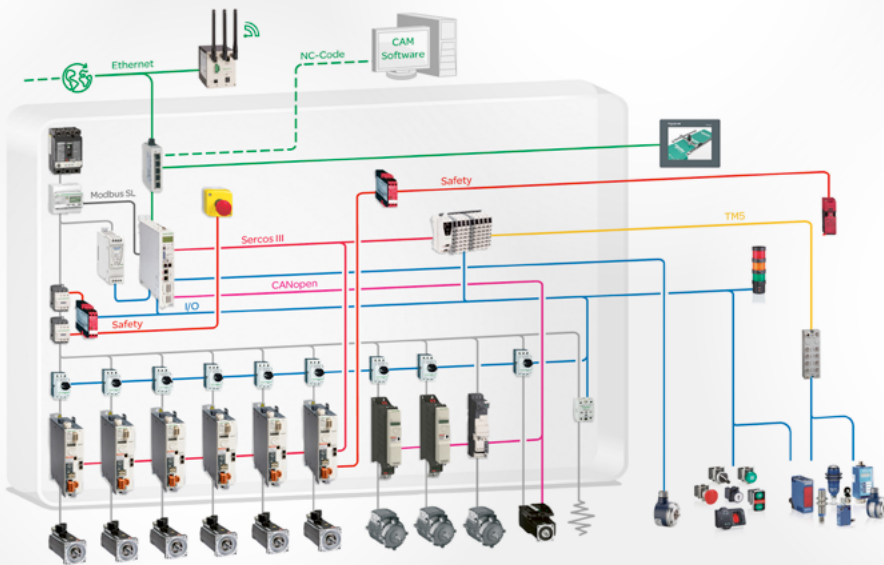
Quick and easy integration to automation architectures



SoMachine

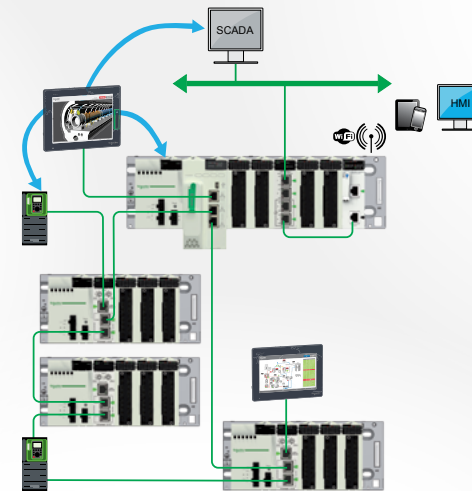
Automation architectures for machines

Magelis GTU is fully integrated with [SoMachine](#), Flexible Control Solution for OEM. A perfect companion to motion applications with [Lexium](#) or [PacDrive](#) solutions.



Automation architectures for factories

Magelis GTU is designed for PlantStruxure, the collaborative Ethernet-based automation architecture from Schneider Electric, as well as [Modicon M580](#), the world's first ePAC (Ethernet PAC), allowing HMI applications to visualize PLC and drives web server, share alarms without additional development, and launch SCADA client applications.



If you want to read more about each segment click on the icon



Packaging



Machine tool



F&B



WWW



MMM

Multifunctional like a PC, easy and secure like an HMI

Boost your efficiency with an open HMI

Magelis GTU was designed to offer the flexibility of Microsoft Windows 7 embedded, allowing you to add new functionalities to your HMI application while maintaining security of your operations.

Simplify maintenance

Build multimedia tutorials using IP streaming video, webcam management, sound speakers, and multiformat document storage.

Access equipment remotely

View all webpages locally or remotely for easy diagnostics and maintenance. Access embedded web servers of Modicon PLCs, Altivar speed drives, Magelis HMI etc. Get remote access to your PC through VNC.

Improve security of operations

No data loss with the integrated NVRAM memory in case of shutdown (no need for UPS). Dedicated write protected CFast card to protect OS and HMI applications from viruses and unauthorized access.







Manage database with Intelligent Data Service (IDS) add-on

Full traceability of operator actions to comply with FDA 21 CFR Part 11 requirement (for Food & Beverage or Pharmaceutical). Easy dashboard analysis and report printing.

Magelis GTU Open Add-on tools pre-installed:





Selection guide: displays

		Advanced display			Smart display		
							
IP66F, IP67F, Type 4X							
Display	Touchscreen, pixels	7": 800 x 480	10": 1280 x 800	12": 1280 x 800	10.4", 800 x 600	12.1": 1024 x 768	15": 1024 x 768
	Type	262,144 colors, TFT			16 million colors, TFT		
Gesture support		Single touch: Sliding, Scrolling			Single touch: Sliding, Scrolling; Multitouch: zooming, double touch		
Front USB		Optional with XBTZGUSB (A port) or HMIZSUSBB (mini-B port)			Embedded USB2.0 (Type A) x 1 and USB2.0 (mini-B) x 1		
Brightness Control		0...100 (Adjusted with touch panel or software)			0...100 (Adjusted with embedded sensor, touch panel or software)		
Backlight Service Life		50,000 hours or more (100,000 hours with brightness reduced by 50%)					
Dimensions	External WxHxD mm	203.6 x 148.6 x 36	268.5 x 198.5 x 67	308.5 x 230.5 x 67	272.5 x 214.5 x 67	315 x 241 x 67	397 x 296 x 67
	Cut-out WxH mm	190 x 135	255 x 185	295 x 217	295 x 217	301.5 x 227.5	383.5 x 282.5
Supply voltage		12...24 VDC					
Conformity to standards		EN61131-2, UL 508, ANSI/ISA12.12.01, CSA C22.2 No 142 & No 213, ATEX Zone 2/22 (1), Marine etc.					
Reference		HMIDT351	HMIDT551	HMIDT651	HMIDT542	HMIDT642	HMIDT732

(1) 4th quarter of 2014.

Accessories						
Dirt-resistant Protective Sheets (5 pcs)	HMIZG63	HMIZD65W	HMIZD66W	HMIZG65	HMIZG66	MPCYK50SPSKIT
Plastic covers for Harsh Environment (IP67)	HMIZD53W	HMIZD55W	HMIZD56W	HMIZD55	HMIZD56	HMIZD57
Dust/moisture resistive seals	No	No	No	HMIZDCOV5	HMIZDCOV6	HMIZDCOV7

Selection guide: **boxes**

		Premium box	Open box
			
CPU		CP600MHzU RISC	CPU X86 1,3GHz
Operating System		Real time OS	Windows 7 Embedded (1)
OS with Application/Backup		SD Card 1 GB/512KB	CFast Card 16 GB/512KB (2)
Memory extention		SD card (up to 4 Gb)	SD card (up to 4 Gb) and CFast Card (up to 32Gb)
Functions	Real time clock	Yes, built-in	
	Variables max.	8000 (in Vijeo Designer)	12000 (in Vijeo Designer)
Video Interface		No	DVI-D OUT x 1
Sound Input Interface		No	MIC or LINE input (software switch)
Sound Output Interface	Speaker Output	300 mW (Rated Load: 8 Ω, Frequency: 1 kHz)	
	LINE Output	Rated load: 10 kΩ or more	
Alarm Output/Buzzer Output		Yes (24 Vdc/50 mA or less)	
Third-party protocols supported		Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB	
Communication	Ethernet port	x2 RJ45 (independant)	x2 RJ45 (independant)
	Serial line	RS485 [Isolated] (COM1) + RS232C/RS422/RS485 (COM2)	
	Expansion Unit	Fieldbus Unit x 1	
	USB	USB 2.0 (Type A) x 2; USB 2.0 (mini-B) x 1	USB 2.0 (Type A) x 3; USB 2.0 (mini-B) x 1
Optional Battery		Yes	
Reference		HMIG3U	HMIG5U
Software (single licence)			
Vijeo Designer		VJDSNDTGSV62M	
Vijeo XD (3)		HMIPEDCZ** (installation DVD) + HMIPELCZLSPAZZ	
Run Time Intelligent Data Service (4)		Not available	VJDSNTRCKV62M
Intelligent Data Service Report Printing (5)		Not available	VJDSNTRPR62M
Vijeo Design'Air/Plus (6)		Available in App store and Google Play	

(1) Vijeo Designer RT demo (Unlimited licence), Office & PDF readers, Internet browser, .Net 3.5, Vijeo Citect web client; (2) RAM 2 Gb; (3) Please, check the availability with your local Schneider Electric office. Replace ** for the version number (for example, 10 for v1.0); (4) Available with Vijeo Designer, availability with VijeoXD after Q1 2015; (5) Need a registered Run Time for Intelligent Data Service; (6) Install trial version of the application for free.

Selection guide: USB accessories

read more

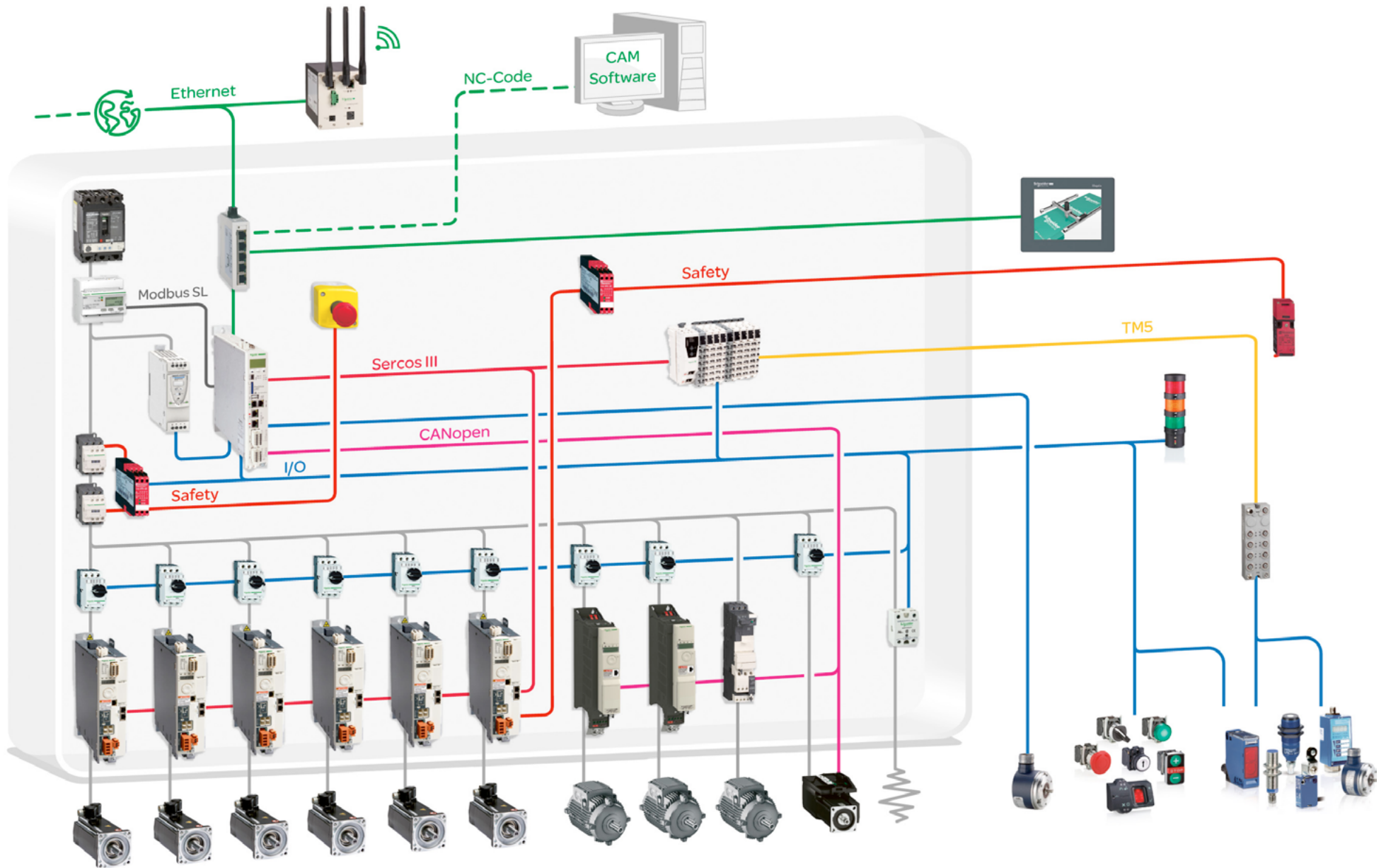


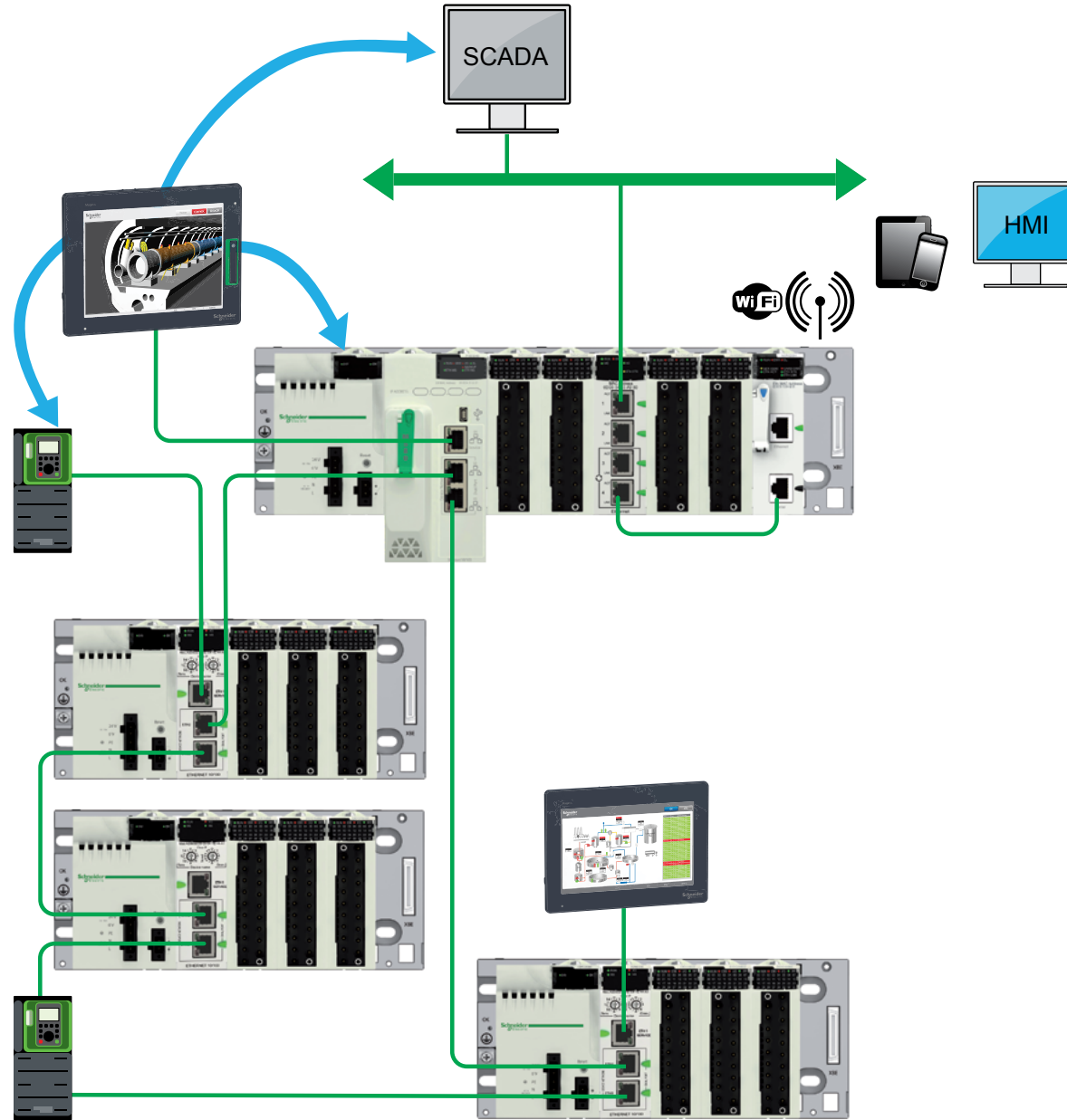
Magelis USB accessories (1)	Monolithic Tower Lights (2) Ø 60 mm lens size, IP 42		Illuminated Switch IP65, Ø 22 mm mounting	Biometric Switch IP65, Ø 22 mm mounting	Keyboard IP65, Ø 22 mm mounting
Description, characteristics	With 3 multi-color LEDs and a clear lens, a 2-tone buzzer (up to 85 dB), with pre-assembled USB cable for easy connection (2), USB cable clamp to ensure firm connection		5 customizable function keys with multi-LED lamps. Could be used as soft/static F-keys or for alarms acknowledgement.	Provides access to HMI pages based on the user profile; Several levels of authorization associated with HMI; Traceability of users and operations by HMI; Database management from PC	Accurate click feeling; efficient use of screen area; protection of screen in dusty atmosphere
	Direct base mounting	With 100 mm aluminium tube mounting and fixing plate			
Compatibility with Magelis GTU	Premium box		Premium and Open box	Premium and Open box	Premium and Open box
Reference	XVGU3SWV	XVGU3SHAV	HMIZRA1	XB5S5B2L2	HMIZKB1

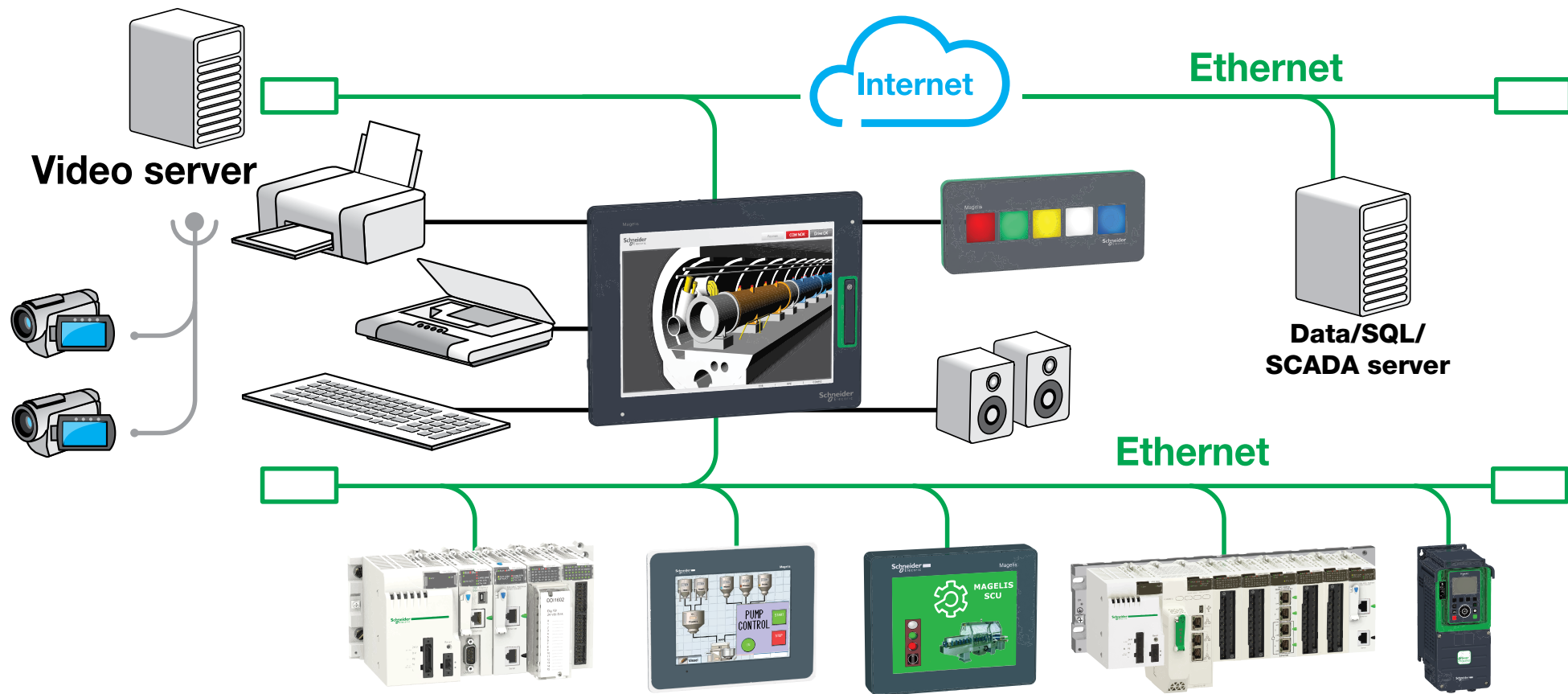
(1) Programmable in Vijeo Designer. Supported by Vijeo XD after Q4 2014.

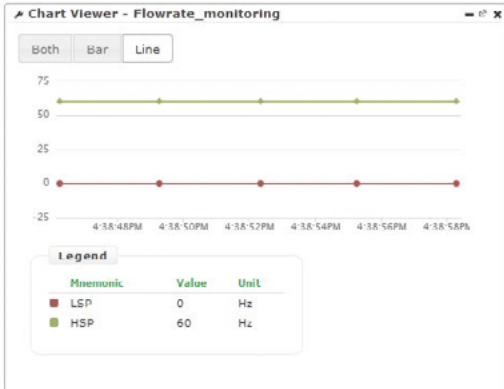
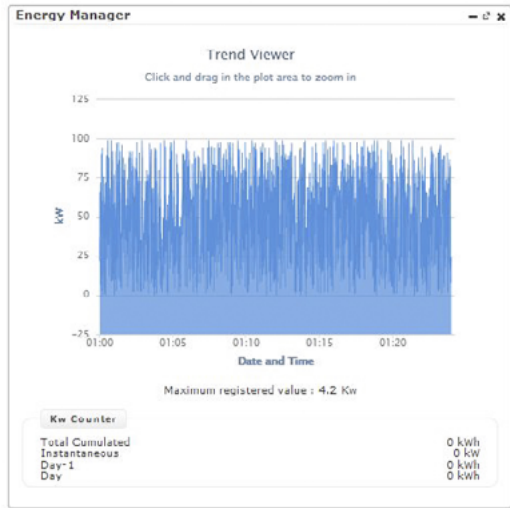
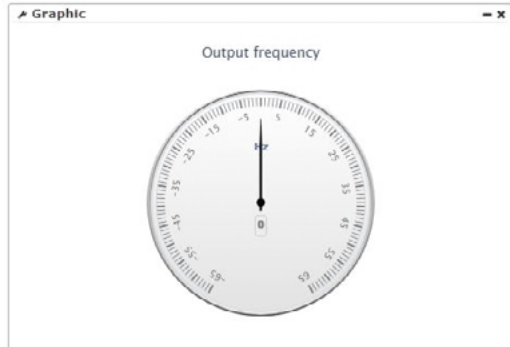
(2) For connection to HMI, use either the Schneider Electric USB cable (BMXXCAUSBH018) or a third-party USB Type A/mini B cable of maximum length 4 m/13.12 ft.

Magelis GTU accessories	Type	Dedicated for	References
Blank memory cards, industrial grade	Auxiliary Output/Speaker Output interface connector (Sold in lots of 5)	Premium and Open box	HMIZGAUX
	CFast card memory 32GB	Open box	HMIZCFA32
	SD card 4 GB	Premium and Open box	HMIZSD4G
System memory cards, industrial grade	CFast card 16GB memory system	Open box	HMIZCFA16S
	SD card 1GB memory system	Premium and Open box	HMIZSD1GS
Remote USB port for terminals with Premium box <small>Enables the USB port to be located remotely on the rear of the HMI terminal on a panel or enclosure door (Ø 21 mm fixing device)</small>		USB type A port	XBTZGUSB
		USB mini-B port	HMIZSUSBB
Cable for application transfer	Terminal to PC	USB mini-B - PC	BMXXCAUSBH018
Serial printer cable		USB Type A - USB/RS-232C	HMIZURS
Serial link isolation unit	RS 232C/RS 485 (COM2)	Premium and Open box	XBTZGI232
DVI-D Cable	L= 10 m (32.80 ft=)	Open Box	HMIYCABDVI1011
Battery		Premium and Open box	HMIZGBAT
Stylus (Sold in lots of 5)			XBTZGPEN
Connection from Magelis GTU to	Type of bus/network	Type	References
Field bus	FIPWAY, FIPIO	Premium box	TSXCUSBFIP
	ModBus Plus	Premium box	XBTZGUMP
	Profibus DP, CANopen Slave, EtherCAT <small>Please, consult your local Schneider Electric office</small>		
PLC/Drives <small>Please, consult SE catalogue for the full list of connection accessories.</small>	Twido, Premium, Micro	Mini-DIN/RS232	TSXPCX1031
	M238/M258/M340, ATS, ATV	RJ45/RS485, L= 2.5 m	XBTZ9980
	ATV, ATS	RJ45/RS485, L= 1 m	VW3A8306R10
	M340	USB mini-B, L= 1.80 m	BMX XCAUSBH018
	Siemens S7, Simatic MPI	9-way SUB-D/RS232	XBTZG9292
	Siemens S7, Simatic PPI & MPI	9-way SUB-D/RS485	XBTZG9721
	Rockwell, DF1-Full Duplex; Mitsubishi A Link	25-way SUB-D/RS232	XBTZG9731
	Omron CQM1, CVM1, Sysmac	9-way SUB-D/RS232	XBTZG9740
	Mitsubishi FX CPU	Mini-DIN 8/RS232	HMI Z951
	Mitsubishi Q Link	9-way SUB-D/RS232	XBTZG9772
	Mitsubishi Q CPU	8-way mini-DIN/RS232	XBTZG9774









Drive ID -

Product Name: Pump10
 Product Code: V0.31F03
 Major/Minor Revision:
 Vendor URL:
 Drive nominal rating: 0.75kW - 1HP
 Drive mains voltage: 380-500 V three phase

Data Viewer -

Please choose a table for this widget:

Table Name	Num. Variables
Test	2
MyTable	1
ThermalSensor	5
Drive	8
Motor	6
ump	14
ElapsedTime	4
PTD	5
CANopen	3
Modbus	5

Save Cancel

Control

Current Drive State

Status: OK
 Fault Detection: No fault saved
 Command: Stopped
 Direction: Reverse
 Frequency Reference: 0 hz

Change Drive State

Lock:

Command:

Direction:

Reset:

Frequency Reference:: 0 hz

0hz 50hz

Simply Start

Parameter	Value	Unit
2 / 3 wire control	0	
Macro config selection	STG	
Customized macro	NO	
Std. motor frequency	50Hz	
Stop type - I/P phase loss	YES	
Rated motor power	0.75	kW
Nominal motor voltage	400	V
Nominal motor current	2	A
Nominal motor frequency	50	Hz
Nominal motor speed	1400	rpm
Max. output frequency	50	Hz
Automatic tuning	NO	
Tune state	TAB	
Tune selection	TAB	
Motor thermal current	1	A
Acceleration ramp time	1	s
Deceleration ramp time	1	s
High Speed	50	Hz
Low speed	0	Hz



- Menu
- Module
- Status Summary
- Performance
- Port Statistics
- Connected Devices
- I/O Scanner
- Messaging
- Services
- QoS
- NTP
- Redundancy
- System
- Alarm Viewer

Status Summary

■ RUN ERR ■ I/O ■ CARD_ERR
■ MOD STATUS ■ NETWORK STATUS DOWN LOAD

Version Info	
Exec. Version	0.7
Kernel Version	0.0
Web Server Version	1.0
Web Site Version	v00.07 IR01
CIP Version	1.0

Service Status		
✓	DHCP Server	Enabled
✓	FDR Server	Enabled
✓	Access Control	Disabled
✗	Scanner Status	One Connection Is Bad
✓	NTP Status	Working Properly

Network Info.	
IP Address	192.168.0.100
Subnet Address	255.255.0.0
Gateway Address	0.0.0.0
MAC Address	00 00 64 00 02 40
Host Name	Modicon - P58 4040 Process


CPU Summary	
Model	BME P58 4040
State	RUN
Scan Time	0 ms
Logged In	Yes
CPU Exec. Version	1
Unity Program	Project

Web Gate - Windows Internet Explorer

http://127.0.0.1/

Fichier Edition Affichage Favoris Outils ?

Favorites Web Gate



Vijeo Designer™

Home Documentation


Monitoring
Control
Diagnostics
Maintenance
Setup

Monitoring


- Web Gate
 - In Frame
 - New Window
- Install Web Gate Control
- Variable Browser
 - In Frame
 - New Window

WEB GATE

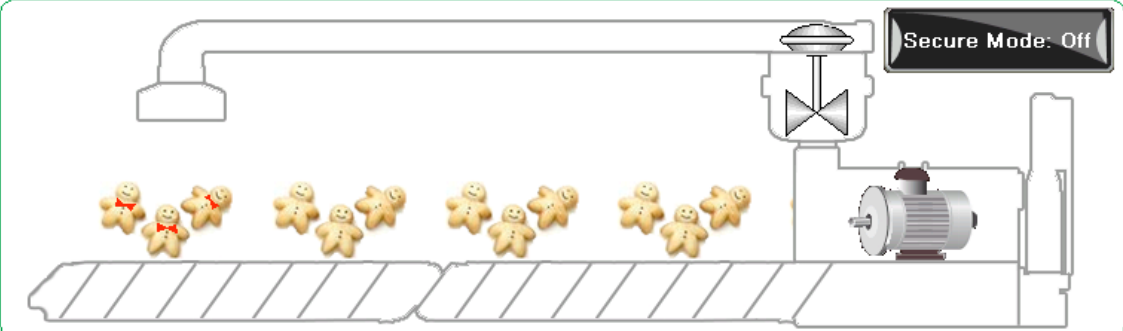
←



Recipe


→

🏠
🧪
16:12:16
🇬🇧



Secure Mode: Off

Equipment Values			
Syrup	45	Candy/Pkg	10
Pectin	12	Pkg/Box	5
Starch	45	Box/Truck	160
Preservative	3		

Candy Type: Cherry

Candy Color:

GreenApple

Lemon

Cherry

Custom

Start

Stop

Recipe	Flavour	<div style="background-color: #92d050; border: 1px solid #ccc; padding: 10px; font-weight: bold; color: white;">SEND</div>	Recipe Status:	Idle
Type	Cherry			

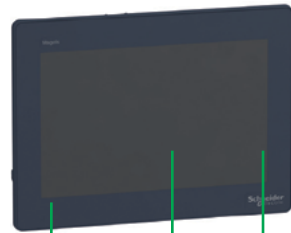
Intranet local | Mode protégé : désactivé

Description

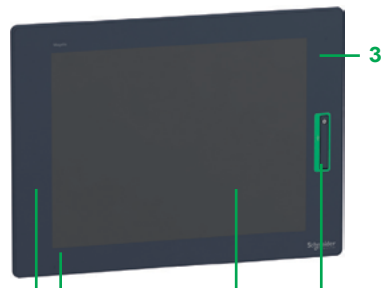
Operator dialogue terminals

Magelis™ GTU Universal panels

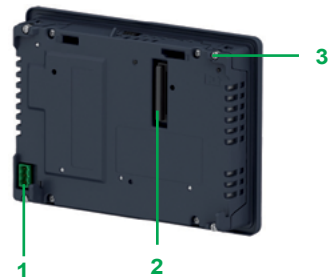
Advanced and Smart display modules



Advanced display front view



Smart display front view



Advanced and Smart display rear view

Description

Magelis HMIDT 351/551/651 Advanced display module

Front view

- 1 A single-touch resistive screen for displaying synoptic views (262K colors LCD TFT LED with 100 brightness levels adjustable) in sizes 7", 10", and 12" wide.
- 2 A multi-color indicator (green, orange and red) showing the panel's operating mode.
- 3 Aluminium alloy front panel providing IP 66/67 protection when mounted on panel or enclosure door.

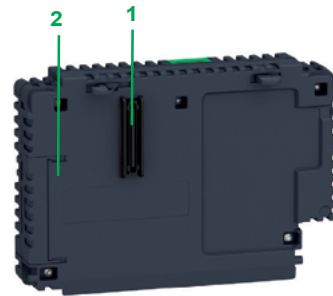
Magelis HMIDT 542/642/732 Smart display module

Front view

- 1 A multi-touch resistive screen for displaying synoptic views (16M colors LCD TFT LED with 100 brightness levels adjustable) in sizes 10.4", 12.1", and 15" standard format.
- 2 A multi-color indicator (green, orange and red) showing the panel's operating mode.
- 3 Brightness sensor to adjust automatically level of brightness to environment.
- 4 Front USB ports 2.0 Host & Device with screw protective cover.
- 5 Aluminium alloy front panel providing IP 66/67 protection when mounted on panel or enclosure door.

Advanced and Smart display rear view

- 1 A removable screw terminal block for 12...24 V $\overline{\text{DC}}$ power supply.
- 2 A box interface.
- 3 A 4x retractable embedded screw fasteners.



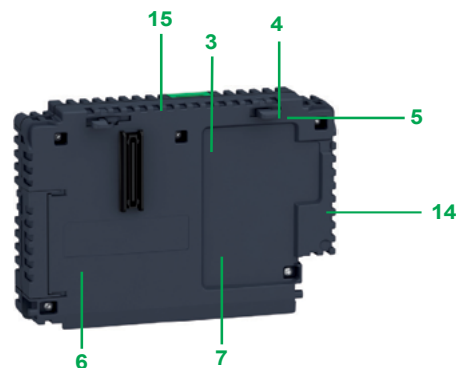
Premium box rear view

Description

Magelis HMIG3U Premium box module

Rear view

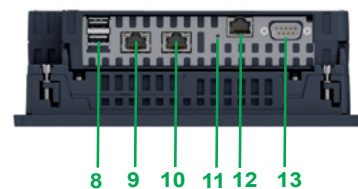
- 1 A display interface.
- 2 A storage unit Cover 1 that has an SD card (1 GB) with pre-installed:
 - Real time operating system
 - Vijeo Designer Run Time



Premium box front view

Front and underside views

- 3 An auxiliary interface for alarm, buzzer and speaker outputs.
- 4 A status LED indicating the operating mode of the terminal.
- 5 A LED indicating access to the SD memory card.
- 6 A mini-B USB connector for application transfer.
- 7 An expansion unit cover for optional battery or optional FieldBus card (pending).
- 8 Two Type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication.
- 9 RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX with an activity LED.
- 10 RJ45 connector for Ethernet TCP/IP link, 10BASE-T/100BASE-TX with an activity LED.
- 11 A COM1 LED indicating data transmission.
- 12 An RJ45 connector for RS-485 serial link with isolation (COM1).
- 13 A 9-way male SUB-D connector for RS-232C or RS-422/RS-485 serial link to PLCs (COM2).
- 14 A storage unit Cover 2 for SD slot memory card dedicated to user data.
- 15 LOCK button to attach the box module and display module.

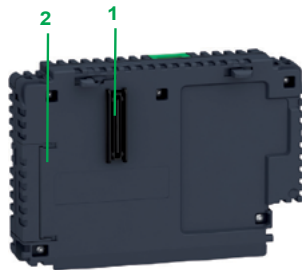


Premium box underside view

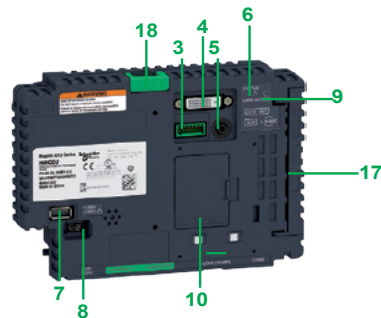
Operator dialogue terminals

Magelis™ GTU Universal panels

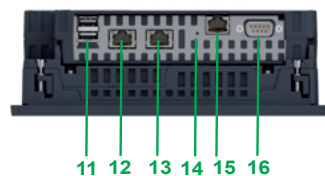
Open box module



Open box rear view



Open box front view



Open box underside view

Description

Magelis HMIG5U Open box

Rear view

- 1 A display interface.
- 2 A storage unit Cover 1 that has a CFast card (16 GB) with pre-installed Windows® Embedded 7 supplied in 9 languages (English, French, German, Italian, Portuguese, Spanish, Swedish, Chinese, Russian) and also:
 - Internet Explorer Version 9.0 as Web browser
 - Notepad
 - MultiMedia Player 12
 - Acrobat Reader, Microsoft Word/Excel Viewer
 - Framework.Net 4.0
 - CAD Viewer
 - VNC Client/Server for remote connection
 - Vijeo Citect Web Client
 - Vijeo Designer Run Time

Front and underside views

- 3 An auxiliary interface for Alarm, Buzzer and speaker outputs.
- 4 A DVI-D interface to connect Magelis iDisplay or LCD monitor display.
- 5 A mini-jack connector for microphone input.
- 6 A status LED indicating the operating mode of the Terminal.
- 7 A Type A USB connector for application transfer.
- 8 A mini-B USB connector for application transfer.
- 9 A LED indicating access to SD or CFast cards.
- 10 An expansion unit cover for optional battery or optional FieldBus card (pending).
- 11 Two type A USB host connector for connecting peripherals, transferring applications and Modicon M340 terminal port communication.
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- 17 A storage Cover 2 for SD slot and CFast slot card dedicated to user data.
- 18 LOCK button to attach the box module on to the display module.