

# EcoStruxure Machine Expert - HVAC Release Notes

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All pertinent state, regional, and local safety regulations must be observed when installing and using this product. For reasons of safety and to help ensure compliance with documented system data, only the manufacturer should perform repairs to components.

When devices are used for applications with technical safety requirements, the relevant instructions must be followed.

Failure to use Schneider Electric software or approved software with our hardware products may result in injury, harm, or improper operating results.

Failure to observe this information can result in injury or equipment damage.

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# Safety Information

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## Important Information

### NOTICE

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

## **DANGER**

**DANGER** indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

## **WARNING**

**WARNING** indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

## **CAUTION**

**CAUTION** indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

## **NOTICE**

**NOTICE** is used to address practices not related to physical injury.

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**PLEASE NOTE**

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

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# About the Book



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## At a Glance

### Document Scope

This document contains important information about the hardware/firmware/software delivery of product EcoStruxure Machine Expert - HVAC. Read the complete document before you use the product or products described herein.

### Validity Note

The information in this Release Notes document is applicable only for EcoStruxure Machine Expert – HVAC compatible products. This document has been updated for the release of EcoStruxure Machine Expert – HVAC V1.1.

The technical characteristics of the devices described in this document also appear online. To access this information online:

Step	Action
1	Go to the Schneider Electric home page <a href="http://www.schneider-electric.com">www.schneider-electric.com</a> .
2	In the <b>Search</b> box type the reference of a product or the name of a product range. <ul style="list-style-type: none"><li>• Do not include blank spaces in the reference or product range.</li><li>• To get information on grouping similar modules, use asterisks (*).</li></ul>
3	If you entered a reference, go to the <b>Product Datasheets</b> search results and click on the reference that interests you. If you entered the name of a product range, go to the <b>Product Ranges</b> search results and click on the product range that interests you.
4	If more than one reference appears in the <b>Products</b> search results, click on the reference that interests you.
5	Depending on the size of your screen, you may need to scroll down to see the data sheet.
6	To save or print a data sheet as a .pdf file, click <b>Download XXX product datasheet</b> .

The characteristics that are presented in the present document should be the same as those characteristics that appear online. In line with our policy of constant improvement, we may revise content over time to improve clarity and accuracy. If you see a difference between the document and online information, use the online information as your reference.

# Chapter 1

## Product Information

### Overview

Maintenance release of EcoStruxure Machine Expert – HVAC, with implementation of new features and bug fixing.

### Product Identification

Reference	Description	Version
TM171PDM27●	Modicon M171 Performance Logic Controllers 27 I/OS	Firmware msk: 423.27
TM171PBM27R	Modicon M171 Performance Logic Controllers 27 I/OS	Firmware msk: 477.27
TM171PFE03	Modicon M171 Flush mounting Performance Controllers	Firmware msk: 489.20
TM171DGRP	Remote Display HMI	Firmware msk: 476.20
TM172P●●28●●/ TM172P●●42●● TM172O●●28●/ TM172O●●42●/	Modicon M172 Optimized and Performance Logic Controllers 28 and 42 I/OS	Firmware msk: 596.09
TM172P●●07●/ TM172P●●18● TM17O●●18●	Modicon M172 Optimized and Performance Logic Controllers 7 and 18 I/Os	Firmware msk: 668.09
TM172DCLW●●●/ TM172DCLF●	Modicon M172 Display Color TouchScreen, Temperature (Humidity) built-in sensor(s) Modicon M172 Display Color TouchScreen Flush Mounting	Firmware msk: 659.06
TM171O●●●●	Modicon M171 Optimized Logic Controllers	Firmware msk: 542.09
TM171VEV●●	Modicon M171 EEV Driver	Firmware msk: 497.13 589.14
TM171SW (EcoStruxure Machine Expert - HVAC)	EcoStruxure Machine Expert – HVAC software	v 1.1.0

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## Release History

Version	Release Date	Description
1.1	June 2019	EcoStruxure Machine Expert – HVAC 1.1
1.0	October 2018	EcoStruxure Machine Expert – HVAC 1.0

## System Requirements

Schneider Electric EcoStruxure Machine Expert - HVAC can be installed on a personal computer having the following characteristics:

### Operative System

- Windows 7 Home Premium 32 Bit & 64 Bit
- Windows 7 Professional 32 Bit & 64 Bit
- Windows 7 Ultimate 32 Bit & 64 Bit
- Windows 8 / 8.1 64 Bit
- Windows 10 64 Bit

### Hardware requirements

- Processor Intel Pentium 1.6 GHz processor or greater
- RAM 1 GB; 2 GB preferred
- Hard Disk 500 MB hard disk space for a default installation; allow a further 1 GB hard disk space for installing libraries and dedicated applications
- Peripherals Mouse or compatible pointing device
- Peripherals USB interface
- Web access Web registration requires Internet access

EcoStruxure Machine Expert - HVAC requires Administrator rights to be installed.  
For further information, contact your Schneider Electric support center.

## Compatibility

All Modicon M171-M172 Optimized and Performance Logic Controllers

## Installation Instructions

EcoStruxure Machine Expert - HVAC software can be downloaded from our website [www.schneider-electric.com](http://www.schneider-electric.com).

The product version concerned offers the EcoStruxure Machine Expert - HVAC functions associated with logic controllers.

Follow setup wizard and refer to EcoStruxure Machine Expert – HVAC Operating Guide



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# Chapter 2

## Hardware/Firmware Information

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### New Features

NEW FEATURES IN TM172P●●●●●●●/TM172O●●●●●●● (FIRMWARE MSK 596.09 AND MSK 668.09)

- Introduced target functions sysHTTP\_AuthentOnOff() and sysFTP\_AuthentOnOff() to disable/enable authentication (enabled by default)
- Introduced two new SNVTs for LONWOKS protocol:
  - SNVT\_setting
  - SNVT\_state
- Introduced target function sysLcd\_RotateAt180( mode ) to rotate display visualization. Keys work accordingly to mode value: TRUE=rotation at 180°, FALSE=default visualization

### Mitigated Anomalies

TM172P●●●●●●●/TM172O●●●●●●● (FIRMWARE MSK 596.09 AND MSK 668.09)

Solved the following issues:

- microSD mount at startup that lock the controller. Fixed max timeout of 30 seconds to mount a volume
- TM172O●●●28●/ TM172O●●●42● models continuously reset at power-on if powered only via USB-device.
- Not able to manage multiple object subscribes Bacnet MSTP

TM172DCL●●● (FIRMWARE MSK 659.06)

Solved the following issues:

- Not possible to enter edit mode with enums
- Bad navigation between different enumeratives
- Editing of INT with format XXX.Y doesn't work if you try to enter values between 0.1 and 0.9
- Not possible to send broadcast messages
- String writing by commissioning using USB port is not correct.

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# Chapter 4

## Software Information

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### New Features

Localization on dialog forms is now possible

### Mitigated Anomalies

- Solved the following issues:
  - Function Block QRCodeDisplay launch compiler critical error if used with TM172DCL●●.
  - Value for RS-485 set in configuration aren't written like default
  - Issue with "Modified" state after a "Refresh current target" command
  - "Build all" disabled while the HMI project is loading
  - File PARAM.BIN is wrong, string termination is missing
  - Switching perspective issue
  - Add the possibility to download single PLC, HMI and HMI Remote from ESME Installer as with SoMachine
  - EWC.exe: error in the compilation of the project with Chinese characters in the name
  - File list (.ini) encoding issue
  - Modbus Custom editor: all protocol are not added if driver is modified.
  - In Modbus custom editor is not possible to insert modbus register of different type (input, Holding...) with same modbus address
  - Code generation error: SFC control variables not found.
  - Import of TM171P Blind Project with HMI Remote doesn't function.
  - Black tabs in Auto Hide Mode. It's difficult read the name of the window
  - A program error for a particular configuration of the group policy
  - In simulation mode a breakpoint is reached after the CASE OF and after the ELSE.
  - Error in print on Ladder project
  - Breakpoints used inside inner loop

### Known Operational Anomalies

Minor vulnerability fixed on dll hijacking (internal reference artf270287)

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# Chapter 5

## Additional Information

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### Other Important External Information

None

### Release Notes History

#### Release Notes L-0

First Release