



## Foxboro DCS

### Model M92 (P0928KK) Industrial Workstation with Windows® 7 Professional Operating System

#### PSS 41H-4M92

#### Product Specification

November 2018



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## Overview

*Software processes are often placed onto stand-alone workstations, with redundancy provided through replicating that configuration. This permits continued plant operation during maintenance as well as in the unusual event of a workstation occurrence. The compact format of the Magelis M92 EcoStruxure Foxboro DCS Industrial Workstation permits much better use of plant physical volume. Its industrial design supports 24/7 operation at 40 DegC.*

The Model M92 Foxboro DCS Industrial Workstations can be used with Foxboro DCS Control Core Services software as well as Foxboro DCS Control Software, and can also provide a platform for Foxboro®, third-party, and user-written applications.

As multi-purpose workstations running Windows 7 64-bit operating systems, these workstations support execution of system applications, data communications for a broad range of applications, file serving capabilities, and the display of graphics and text. The stations also interface with corporate networks at a local or worldwide level.

The Magelis workstations support a mouse, a QWERTY keyboard, and two monitors. They also feature 4 GB of RAM memory and support an internal DVD+RW drive.

Client/server communication is accomplished using the TCP/IP networking protocol plug in PCIe network adapter card.

The variable speed fan allows the use of the device in a control room environment (noise reduction).

As indicated by the CE logo, the Magelis workstations conform to the applicable European Union directives.

## Workstation Security

Foxboro DCS workstations support optional product features that help customers to meet plant requirements for enhanced workstation security.

Plant requirements for enhanced Foxboro DCS workstation security can be met through a combination of new product security enhancements as well as implementing best security policies, practices, and procedures.

The Foxboro DCS workstation enhanced product security requirements are supported in two broad categories, namely, workstation software including passwords and workstation platform hardening.

Workstation software:

- Changeable log-on passwords
- Individual user passwords
- Password lock-out after a user-configurable number of unsuccessful log-in attempts and mechanisms to reset login
- Password aging that requires password change on a periodic basis
- Password support of alphanumeric and symbol characters as per Microsoft convention
- Password file protection
- User accounts for Microsoft Windows 7-based workstations managed from a central location through Microsoft Domains and Active Directory
- User account creation, deletion and modification tracking
- User logon/ logoff tracking
- Least privilege file and account access
- Necessary system services running in non-admin accounts where possible

- Security patches from software suppliers including Microsoft supported patch status reporting
- Anti-virus software including malware protection and Anti-Spyware software support. For a full listing of supported endpoint protection features, refer to *Symantec Endpoint Protection* (PSS 31S-4SYMANTC).

Workstation Platform Hardening:

- Unnecessary services, software, and programs are not installed
- Unneeded software ports disabled
- Documentation on how to re-enable services and ports where required by special circumstances
- Secure BIOS changes.

## Features

The Model M92 Industrial Workstations, available with a Foxboro DCS S10 software license, can:

- Host Foxboro DCS control stations
- Support data communications to directly connected process I/O devices
- Serve as an application platform
- Serve as a human to machine interface (HMI) station

## Model M92 Industrial Workstation Configuration



The Model M92 Industrial Workstation includes the following elements:

- Intel i3-2120 dual-core processor running at 3.3GHz
- 4GB DDR3 RAM
- 500GB HDD 24/7
- One optical DVD-RW drive
- 300 Watt power supply
- Three user exchangeable fans with speed control
- Three copper Ethernet 10/100/1000 Mbps ports
- Two RS-232 ports
- Two USB 2.0 ports
- Four USB 3.0 ports
- One VGA video port with up to 2048x1536 resolution at 75 Hz
- One DVI video port with up to 1920x1200 resolution at 60Hz
- USB Keyboard
- USB Mouse
- Symantec End Point Protection

## Functional Specifications

Processor Type	Intel i3-2120 dual-core
Memory	4 GB DDR-3 RAM standard
Devices Served	<p>Peripherals</p> <ul style="list-style-type: none"> <li>One 500 GB SATA hard drive, and DVD+RW (SATA)</li> </ul> <p>Video Displays (Up to 2)</p> <ul style="list-style-type: none"> <li>23-inch LCD USB Touchscreen Monitor</li> <li>23-inch LCD Monitor</li> <li>40-inch LCD Overview Monitor</li> </ul> <p>Interfaces to External Devices</p> <ul style="list-style-type: none"> <li>USB <ul style="list-style-type: none"> <li>Mouse</li> <li>QWERTY keyboard</li> <li>Single optional touchscreen</li> <li>External speakers</li> </ul> </li> <li>Serial <ul style="list-style-type: none"> <li>Customer-supplied serial devices</li> </ul> </li> </ul>
Internal Diagnostics	Self-checking is performed at power-up
Video	<p>Output Type</p> <ul style="list-style-type: none"> <li>One VGA</li> <li>One DVI</li> </ul> <p>Screen Presentation</p> <ul style="list-style-type: none"> <li>Refresh Rate <ul style="list-style-type: none"> <li>VGA 75 Hz</li> <li>DVI 60 Hz</li> </ul> </li> <li>Resolution <ul style="list-style-type: none"> <li>VGA Up to 2048 x 1536</li> <li>DVI Up to 1920 x 1200</li> </ul> </li> </ul>
Ethernet Interface Communications	Two onboard integrated 10/100/1000 NICs and one plug in 10/100/1000 PCIe NIC, for a total of three network connections.
Redundant Control Network Interface Communications	Type: IEEE 802.3 data bus and EIA RS-232 control bus
Power Requirements	<ul style="list-style-type: none"> <li>Input Voltage: 240 V ac (nominal) @ 8.0 A, auto select 47 to 66 Hz Operating Line Frequency Range</li> <li>Power Consumption: 300 W maximum output power supply</li> </ul>
Part Number	P0928KK

## Environmental Specifications

	Processor Operating	Processor Storage
<b>Temperature</b>	Degree of Protection, IP20 IEC 60529 0° to 40°C (32° to 104°F) at sea level, IEC 60068-2-2	-40° to 70°C (-40° to 156°F). Maximum rate of change is 20°C/hr (36°F/hr).
<b>Relative Humidity</b>	10 to 95% relative humidity (Rh), 40°C (158°F), non-condensing, IEC 60068-2-78	10 to 95% relative humidity (Rh), 60°C (140°F), noncondensing.
<b>Maximum Vibration and Shock</b>	Random (operating): 0.002 G2/Hz; 1 Gr ms; 5...500 Hz; 1 hour per axis (X, Y, Z), IEC 60068-2-6  Shock 10 g (With 11 ms duration, half sine wave, IEC 60068-2-27	19.6 m/s2 (2 gn); 5...500 Hz; 1 octave / min; 1 hour per axis (X, Y, Z)
<b>Altitude</b>	3050 m (10,000 ft). This value may be limited by the type and number of options installed.	-16 to 10,600 m (-50 ft to 35,000 ft)  Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

## Regulatory Compliance

Agency Certifications	<p>Schneider Electric submitted this product for independent testing and qualification by third-party agencies. These agencies have certified this product as meeting the following standards:</p> <ul style="list-style-type: none"> <li>Underwriters laboratories Inc., UL 60950-1, 2nd edition, and CSA C22.2 N° 60950-1-07, information technology equipment.</li> </ul> <p>Schneider Electric is in the process of certifying compliance with the following standards:</p> <ul style="list-style-type: none"> <li>EAC Eurasian conformity. Refer to product markings.</li> <li>CCC China compulsory product certification. Refer to product markings.</li> </ul>
Compliance Standards	<p>Schneider Electric tested this product for compliance with the following compulsory standards:</p> <ul style="list-style-type: none"> <li>United States <ul style="list-style-type: none"> <li>Federal communications commission, FCC Part 15</li> </ul> </li> <li>Europe: CE <ul style="list-style-type: none"> <li>Directive 2006/95/EC (Low voltage)</li> <li>Directive 2004/108/EC (EMC)</li> <li>EMI: EN55011 (Group 1, Class A), EN 61000-6-4</li> <li>Information technology equipment: EN 60950-1</li> <li>EMS: EN 61000-6-2</li> </ul> </li> </ul>
Qualification Standards	<p>Schneider Electric voluntarily tested this product to additional standards. The additional tests performed, and the standards under which the tests were conducted, are identified in environmental characteristics.</p>
Hazardous Substances	<p>This product is compliant with:</p> <ul style="list-style-type: none"> <li>WEEE, Directive 2012/19/EU</li> <li>RoHS, Directive 2011/65/EU</li> <li>RoHS China, Standard SJ/T 11363-2006</li> <li>REACH regulation EC 1907/2006</li> </ul>
End of Life (WEEE)	<p>The product contains electronic boards. It must be disposed of in specific treatment channels. The product contains cells and/or storage batteries which must be collected and processed separately, when they have run out and at the end of product life.</p> <p>Refer to the section maintenance to extract cells and batteries from the product. These batteries do not contain a weight percentage of heavy metals over the threshold notified by European Directive 2006/66/EC.</p>



## Physical Specifications

Dimensions	Processor <ul style="list-style-type: none"><li>• Height: 88.4 mm (3.48 in)</li><li>• Width: 426.4 mm (16.79in)</li><li>• Depth: 566.3 mm (22.29 in)</li></ul>
Mounting	Tabletop, Metal Enclosure (1000x1000 mm) 19" Rack Mounting Kit available
Weight	14.5kg (40 lbs)


## Additional Technical Information

The technical characteristics of the devices described in this document also appear online at the Schneider Electric website.

To access this information online, proceed as follows:

1. Go to the Schneider Electric home page [www.schneider-electric.com](http://www.schneider-electric.com).
2. In the Search box, type the reference of a product or the name of this product HMIRSPSXR6S01. Do not include blank spaces in the modelnumber/product range. To get information on grouping similar modules, use asterisks (\*).
3. If you entered a reference, go to the HMIRSUH3A3701 Product data sheets search results and click the reference that interests you. Depending on the size of your screen, you may need to scroll down to see the data sheet.

To save or print a data sheet such as a .pdf file, click Download HMIRSUH3A3701 product data sheet.

 **WARNING:** This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.p65warnings.ca.gov/](http://www.p65warnings.ca.gov/).

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