



# Foxboro™ DCS

## FBM232 Field Device System Integrator Module, 10/100 Mbps Ethernet, Single

### PSS 41H-2S232

#### Product Specification

May 2023



# Functional Specifications

<p>Communications</p>	<p>Bus Characteristics</p> <ul style="list-style-type: none"> <li>• Communication Type Ethernet</li> <li>• Communication Transmission Rate 10 or 100 Mbps</li> <li>• Communication Protocol UDP/IP or TCP/IP</li> <li>• IP Address Fixed or DHCP</li> </ul> <p><b>NOTE:</b> For driver specific limitations on I/O Capacity and Data Types Transferred, refer to the corresponding driver PSS or User’s Guide.</p> <p>I/O Capacity</p> <ul style="list-style-type: none"> <li>• Up to 64 devices per FBM232 maximum (number of actual devices is performance dependent) with up to 2000 DCI connections.</li> </ul> <p>Data Types Transferred</p> <ul style="list-style-type: none"> <li>• 2-byte or 4-byte signed or unsigned integers, 4-byte IEEE single-precision floating values, or binary values. Automatic conversion for other types as implemented in the downloadable driver.</li> </ul> <p>Fastest Allowed ECB Block Period</p> <ul style="list-style-type: none"> <li>• 500 msec</li> </ul>
<p>Module Fieldbus Communication</p>	<p>Communicates with its associated FCM100Et, FCM100E, FCP280, or FCP270 via the redundant 2 Mbps module Fieldbus.</p>
<p>FBM232 Power Requirements</p>	<ul style="list-style-type: none"> <li>• Input Voltage Range (Redundant) 24 V DC +5%, -10%</li> <li>• Consumption 7 W (maximum)</li> <li>• Heat Dissipation 7 W (maximum)</li> </ul>
<p>Regulatory Compliance, Electromagnetic Compatibility (EMC)</p>	<p>European EMC Directive 2014/30/EU Meets: EN61326-1:2013 Class A Emissions and Industrial Immunity Levels</p>

<p>Regulatory Compliance, Product Safety</p>	<ul style="list-style-type: none"> <li>• <i>Underwriters Laboratories (UL) for U.S. and Canada</i>                      UL/UL-C listed as suitable for use in UL/UL-C listed Class I, Groups A-D; Division 2; temperature code T4 enclosure based systems when connected to specified Foxboro DCS processor modules as described in the <i>Standard and Compact 200 Series Subsystem User's Guide (B0400FA)</i>.                       Communications circuits also meet the requirements for Class 2 as defined in Article 725 of the National Electrical Code (NFPA No.70) and Section 16 of the Canadian Electrical Code (CSA C22.1). Conditions for use are as specified in the <i>Standard and Compact 200 Series Subsystem User's Guide (B0400FA)</i>.</li> <li>• <i>European Low Voltage Directive 2014/35/EU and Explosive Atmospheres (ATEX) Directive 2014/34/EU</i>                       DEMKO certified as Ex nA IIC T4 for use in certified Zone 2 enclosure when connected to specified processor modules as described in the <i>Standard and Compact 200 Series Subsystem User's Guide (B0400FA)</i>.</li> <li>• <i>Marine Certification</i>                       ABS Type Approved and Bureau Veritas Marine certified for Environmental Category EC31.</li> </ul>
<p>Calibration Requirements</p>	<p>Calibration of the module is not required.</p>

## Physical Specifications

Mounting	The FBM232 mounts on a Modular Baseplate. The Modular Baseplate can be mounted horizontally or vertically on a DIN rail, or mounted horizontally in a 19-inch rack using a mounting kit. Refer to PSS 31H-2SBASPLT for details.
Weight	284 g (10 oz) approximate
Part Number	P0926GW
Dimensions	<ul style="list-style-type: none"><li>• Height: 102 mm (4 in) 114 mm (4.5 in) including mounting lugs</li><li>• Width: 45 mm (1.75 in)</li><li>• Depth: 104 mm (4.11 in)</li></ul>
Cables	<ul style="list-style-type: none"><li>• From Module to Hub/Switch/Device 1 m (3.3 ft) to 100 m (330 ft)</li><li>• Connectors RJ-45</li><li>• Null Hub Adapter Cable P0971PK</li></ul>