1732E ArmorBlock Dual-Port EtherNet/IP
4-Point Analog Modules

Catalog Numbers 1732E-IF4M12R, 1732E-OF4M12R, 1732E-IT4IM12R, 1732E-IR4IM12R

Parts List

Your package contains one 1732E ArmorBlock™ module and these pinout guide wiring instructions.

For complete installation instructions, refer to the Module Publication Number table and visit http://rockwellautomation.com/literature.

Module Publication Number

<table>
<thead>
<tr>
<th>Module</th>
<th>Publication Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1732E ArmorBlock Dual-Port EtherNet/IP 4-Point Analog Input and Output Modules (1732E-IF4M12R, 1732E-OF4M12R)</td>
<td>1732E-IN006</td>
</tr>
<tr>
<td>1732E ArmorBlock Dual-Port EtherNet/IP 4-Point Thermocouple and RTD Input Modules (1732E-IT4IM12R, 1732E-IR4IM12R)</td>
<td>1732E-IN005</td>
</tr>
</tbody>
</table>

**ATTENTION:** Two sets of mounting holes are used to mount the module directly to a panel or machine. Mounting holes accommodate #6 (M3) pan head screws. The torque specification is 0.68 Nm (6 lb-in.).

**ATTENTION:** To comply with the CE Low Voltage Directive (LVD), this equipment and all connected I/O must be powered from a source compliant with the following: Safety Extra Low Voltage (SELV) or Protected Extra Low Voltage (PELV).

**ATTENTION:** To comply with UL restrictions, this equipment must be powered from a source compliant with the following: Limited Voltage/Limited Current.
I/O Connectors Pinout Guide

Micro-style M12 5-Pin Input Female Connector – 1732E-IF4M12R
(View into connector)
- Pin 1: Current Input +
- Pin 2: Current Common
- Pin 3: Voltage Input +
- Pin 4: Voltage Common
- Pin 5: No Connect

Micro-style M12 5-Pin Output Female Connector – 1732E-OF4M12R
(View into connector)
- Pin 1: Current Output +
- Pin 2: Current Common
- Pin 3: Voltage Output +
- Pin 4: Voltage Common
- Pin 5: No Connect

Micro-style M12 5-Pin Input Female Connector – 1732E-IT4IM12R
(View into connector)
- Pin 1: CJC +
- Pin 2: TC +
- Pin 3: CJC -
- Pin 4: TC -
- Pin 5: No Connect

D12 Micro-style 5-Pin Input Female Connector – 1732E-IR4IM12R
(View into connector)
- Pin 1: No Connect
- Pin 2: A
- Pin 3: B
- Pin 4: C
- Pin 5: No Connect

IMPORTANT For information on supported sensors and sensor types for the 1732E-IT4IM12R module, see the Installation Instructions for 1732E Temperature Modules, publication 1732E-IN005.

Publication 1732E-WD003B-EN-P - July 2012
Ethernet Connector Pinout Guide

D-Code M12 Micro Network Female Connector

(View into connector)
Pin 1  Tx+
Pin 2  Rx+
Pin 3  Tx-
Pin 4  Rx-
Pin 5  Shell

Power Connectors Pinout Guide

Micro-style 4-Pin Input Male Receptacle

(View into receptacle)
Pin 1  Auxiliary power+
Pin 2  Module power+
Pin 3  Module power-
Pin 4  Auxiliary power-

Specifications

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature, operating</td>
<td>IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -20…60 °C (-4…140 °F)</td>
</tr>
<tr>
<td>Temperature, ambient, max</td>
<td>60 °C (140 °F)</td>
</tr>
<tr>
<td>Voltage, power, min</td>
<td>12 V DC</td>
</tr>
<tr>
<td>Voltage, power, max</td>
<td>30V DC</td>
</tr>
<tr>
<td>Power consumption</td>
<td>3 W @ 24V DC, typical</td>
</tr>
<tr>
<td></td>
<td>3.5 W, max (module unloaded)</td>
</tr>
<tr>
<td>Enclosure type rating</td>
<td>Meets IP65/66/67/69K (when marked)</td>
</tr>
</tbody>
</table>
ATTENTION: This equipment is considered Group 1, Class A industrial equipment according to IEC/CISPR 11. Without appropriate precautions, there may be difficulties with electromagnetic compatibility in residential and other environments due to conducted and radiated disturbance.

Certificates

<table>
<thead>
<tr>
<th>Certification (when product is marked)</th>
<th>Value</th>
</tr>
</thead>
</table>
| CE                                   | European Union 2004/108/EC EMC Directive, compliant with:  
EN 61326-1; Meas./Control/Lab., Industrial Requirements  
EN 61000-6-2; Industrial Immunity  
EN 61000-6-4; Industrial Emissions  
EN 61131-2; Programmable Controllers (Clause 8, Zone A & B) |
| C-Tick                               | Australian Radiocommunications Act, compliant with:  
AS/NZS CISPR 11; Industrial Emissions |
| EtherNet/IP                          | ODVA conformance tested to EtherNet/IP specifications. |
| KC                                   | Korean Registration of Broadcasting and Communications Equipment, compliant with:  
Article 58-2 of Radio Waves Act, Clause 3 |

(1) See the Product Certification link at [http://www.ab.com](http://www.ab.com) for Declarations of Conformity, Certificates, and other certification details.

ATTENTION: The device meets UL Type 1 Enclosure rating.  
ATTENTION: The device does not provide bonding or grounding terminal. Customer shall provide own bonding or grounding.

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