

## Specifications

Specifications apply to the PM/APM/HPM I/O modules mounted in a standard cabinets. See PM/APM/HPM Specification and Data Sheets for more information.

### I/O Link Extender (Remote I/O)

| Parameter                                                                                                                                                                                                     | Specification            |                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------|
|                                                                                                                                                                                                               | Remote I/O Link Extender | Long Distance I/O Link Extender |
| Fiber Link Length                                                                                                                                                                                             | 1.2 km                   | 8 km                            |
| Fiber Size                                                                                                                                                                                                    | 62.5/125 $\mu\text{m}$   | 62.5/125 $\mu\text{m}$          |
| Wave Length                                                                                                                                                                                                   | 820 nanometers           | 1300 nanometers                 |
| Fiber Power Budget Over-Temperature Range                                                                                                                                                                     | 5.5 dB                   | 10.0 dB                         |
| Note: Fiber optic cables are supplied by outside vendors in accordance with Honeywell specifications. For additional information, see the <i>PM/APM Process Manager Planning</i> manual, PM02-501, Section 9. |                          |                                 |

### European Community Compliance (CE-Mark)

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CE Conformity (Europe)</b> | <p>This product is in conformity with the protection requirements of the following European Council Directives: 73/23/EEC, the Low Voltage Directive, and 89/336/EEC, the EMC Directive. Conformity of this product with any other "CE Mark" Directive(s) shall not be assumed.</p> <p><i>Deviation from the prescribed procedures and conditions specified in the installation manuals may invalidate this product's conformity with the Low Voltage and EMC Directives. See Table 1 for IOP and FTA model information.</i></p> |
| <b>Product Classification</b> | Class I: Permanently mounted, permanently connected Industrial Control Equipment with protective earthing (grounding). (EN 61010-1-1993)                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Installation Category</b>  | Category II: Energy-consuming equipment supplied from the fixed installation. Local Level Appliances and Industrial Control Equipment. (EN 61010-1-1993)                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Pollution Degree</b>       | Pollution Degree 2: Normally non-conductive pollution with occasional conductivity caused by condensation. (IEC 664-1-1992)                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>EMC Classification</b>     | Group 1, Class A, Industrial, Scientific and Medical (ISM) Equipment. (EN55011-1991; Emissions)                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Method of Assessment</b>   | <p>EMC: Technical Construction File (TCF)</p> <p>LVD: Technical File (TF)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Model Numbers**

| Description                                                                                                              | Uncoated Model Number | Coated Model Number (see note) |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|
| <b>I/O Processors</b>                                                                                                    |                       |                                |
| High Level Analog Input Processor (16 Inputs)                                                                            | n/a                   | MC-PAIH03                      |
| Smart Transmitter Interface (Multivariable) Processor (16 Inputs)                                                        | MU-PSTX03             | MC-PSTX03                      |
| Serial Device Interface Processor (16 Points/Port)                                                                       | MU-PSDX02             | MC-PSDX02                      |
| Serial Interface Processor (16 Points/Port)                                                                              | MU-PSIM11             | MC-PSIM11                      |
| Low Level Analog Input Processor (8 Inputs)                                                                              | MU-PAIL02             | MC-PAIL02                      |
| Low Level Analog Input Multiplexer Processor (32 Inputs)                                                                 | MU-PLAM02             | MC-PLAM02                      |
| Remote Hardened Multiplexer IOP (32-Points)                                                                              | MU-PRHM01             | MC-PRHM01                      |
| Pulse Input Processor (8 Inputs)                                                                                         | MU-PPIX02             | MC-PPIX02                      |
| Analog Output Processor (8 Outputs)                                                                                      | n/a                   | MC-PAOX03                      |
| Analog Output 16 Processor (16 Outputs)                                                                                  | n/a                   | MC-PAOY22                      |
| Digital Input Processor (32 Inputs)                                                                                      | MU-PDIX02             | MC-PDIX02                      |
| Digital Input Processor for Sequence of Events (32 Inputs)                                                               | MU-PDIS12             | MC-PDIS12                      |
| Digital Input 24 Vdc Processor (32 Inputs)                                                                               | MU-PDIY22             | MC-PDIY22                      |
| Digital Output Processor (16 Outputs)                                                                                    | MU-PDOX02             | MC-PDOX02                      |
| Digital Output 32 Processor (32 Outputs)                                                                                 | MU-PDOY22             | MC-PDOY22                      |
| Blank Filler Plate for I/O Slot                                                                                          | MU-PFPX01             | n/a                            |
| I/O Link Extender Pair–Main Location                                                                                     | MU-IOLM02             | MC-IOLM02                      |
| I/O Link Extender Pair–Remote Location                                                                                   | MU-IOLX02             | MC-IOLX02                      |
| Long Distance I/O Link Extender Pair                                                                                     | MU-ILDX03             | MC-ILDX03                      |
| I/O Link Extender Shroud (EC)                                                                                            | MU-ILES01             | n/a                            |
| <b>NOTE:</b> MC model numbers indicate conformally coated boards. All IOPs are available conformally coated (MC models). |                       |                                |

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