

I/A Series® Hardware Enclosure Agency Certification



Most I/A Series enclosure based systems are available with Factory Mutual Research Corporation (FM) approvals and/or Canadian Standards Association (CSA) certifications for safety in both general purpose and hazardous locations. These systems are also designed to meet International Electrotechnical Commission (IEC) safety standards for process control and information technology equipment. This is to comply with product safety directives for the sale of products within the European Union (EU).

The I/A Series agency certification descriptors and individual equipment/agency certifications are identified on the following pages. Table 1 identifies Agency Certification for Molded Structural Foam Enclosures, Table 2 – Metal Enclosures, and Table 3 – Fieldbus Modules.

NOTE

Only systems housed in metal enclosures meet EU requirements for Electromagnetic Compatibility (EMC) compliance.

I/A SERIES AGENCY CERTIFICATION DESCRIPTORS

Canadian Standards Association

- C1. Enclosure based system is CSA certified as suitable for use in Classes I, II, and III; Groups A-D and G; Division 2 hazardous locations when configured with specified internal modules.
- C2. Enclosure based system is CSA certified for ordinary location use when configured with specified internal modules.
- C3. Module may be used in CSA certified ordinary location enclosure based systems.
- C4. Module may be used in CSA ordinary location and Division 2 enclosure based systems.
- C5. Module has field I/O circuits that are non-incendive for Class I, Groups A-D; Division 2 hazardous locations when module is used in CSA certified Division 2 enclosure based systems.
- C6. CSA certified as a component, when equipped with specified modules, for use in certified ordinary location process control systems.
- C7. CSA certified as a component, when equipped with specified modules, for use in certified Division 2 process control systems.

Factory Mutual Research Corporation

- F1. Enclosure based system is FM approved as suitable for use in Classes I, II, and III; Groups A-D and G; Division 2 hazardous locations when configured with specified internal modules.
- F2. Module may be used in FM approved Division 2 enclosure based systems.
- F3. Module has field I/O circuits that are non-incendive for Classes I, II, and III, Groups A-D and G; Division 2 hazardous locations when module is used in FM approved Division 2 enclosure based systems.
- F4. FM approved as a component, when equipped with specified modules, for use in certified Division 2 process control systems.

Table 1. Agency Certification – Molded Structural Foam Enclosures

	CSA	FM
Industrial Enclosure 32, Sealed, Fan, Auxiliary Cooling Assembly	C2	—
Industrial Enclosure 32, Sealed, Fan	C2	—
Industrial Enclosure 32, Vented	C2	—
Industrial Enclosure 32, Multiple (Bridged)	C2	—
Industrial Enclosure 16, Sealed, Fan, Auxiliary Cooling Assembly	C2	—
Industrial Enclosure 16, Sealed, Fan	C2	—
Industrial Enclosure 16, Vented	C2	—
Field Enclosure 4	C1, C2	F1
Field Enclosure 4 with Extended Temperature Range	C1, C2	F1
Field Enclosure 8 with Extended Temperature Range	C1, C2	F1
Field Enclosure 8 with Standard Temperature Range	C1, C2	F1
Field Enclosure 8 with Standard Temperature Range with Peripherals	C2	F1
1x8 Mounting Structure	C6, C7	F4
1x8 FBM Mounting Structure	C6, C7	F4
Modular Industrial Workstation	C2	—

Table 2. Agency Certification – Metal Enclosures

	CSA	FM
Metal Field Enclosure 8	C1, C2	F1
Metal Field Enclosure 8 with Peripherals	C2	F1
Metal Industrial Enclosure 32, Sealed	C1, C2	F1
Metal Industrial Enclosure 32, Vented, Fans	C2	—
Metal Industrial Enclosure 24, Sealed	C1, C2	F1
Metal Industrial Enclosure 24, Vented, Fans	C2	—
Metal Termination Enclosure	C2	—

Table 3. Agency Certification – Fieldbus Modules

	CSA	FM
FBM01 - 0 to 20 mA Input Interface Module	C4	F2, F3
FBM02 - Thermocouple/mV Input Interface Module	C4, C5	F2, F3
FBM03 - RTD Input Interface Module	C4, C5	F2, F3
FBM04 - 0 to 20 mA I/O Interface Module	C4	F2, F3
FBM05 - Redundant 0 to 20 mA I/O Interface	C4	F2, F3
FBM06 - Pulse Input, 0 to 20 Output Interface Module	C4	F2, F3
FBM07 - Contact/dc Input Interface Module	C4**	F2, F3**
FBM08 - 120 V ac Input Interface Module	C4	F2
FBM09 - Contact/dc Input/Output Interface Module	C4**	F2, F3**
FBM10 - 120 V ac Input/Output Interface Module	C4	F2
FBM11 - 240 V ac Input/Output Interface Module	C4*	—
FBM12 - Contact/dc Expansion Input Interface Module	C4**	F2, F3**
FBM13 - 120 V ac Expansion Input Interface Module	C4	F2
FBM14 - Contact/dc Expansion Input/Output Interface Module	C4**	F2, F3**
FBM15 - 120 V ac Expansion Input/Output Interface Module	C4	F2
FBM16 - 240 V ac Expansion Input/Output Interface Module	C4*	—
FBM17 - 0 to 10 V dc, Contact/dc Input/Output Interface Module	C4	F2, F3
FBM20 - 240 V ac Input Interface Module	C4*	—
FBM21 - 240 V ac Expansion Input Interface Module	C4*	—
FBM22 - Single 0 to 20 mA I/O Auto/Manual Interface Module	C4	F2, F3
FBM24 - Contact/125 V dc Input Interface Module	C4	F2, F3
FBM25 - Contact/125 V dc Expansion Input Interface Module	C4	F2, F3
FBM26 - Contact/125 V dc I/O Interface Module	C4	F2, F3
FBM27 - Contact/125 V dc Expansion I/O Interface Module	C4	F2, F3
FBM33 - RTD Input Interface Module	C4, C5	F2, F3
FBM41 - High Power Contact/dc Input/Output Interface Module	C4	F2, F3
FBM42 - High Power Contact/dc Expansion Input/Output Interface Module	C4	F2, F3

Table 3. Agency Certification – Fieldbus Modules

	CSA	FM
FBM43 - Dual Baud Rate Intelligent Transmitter Interface Module	C4	F2, F3
FBM44 - Dual Baud Rate Intelligent Transmitter/0 to 20 mA Output Interface Module	C4	F2, F3
FBM46 - Redundant Intel Transmitter/0 to 20 mA Interface Module	C4	F2, F3
P0903ZE - Fieldbus Isolator Module	C4, C5	F2, F3

* Channel-to-channel voltage must not exceed 300 V, and all channels must be powered from the same branch circuit.

** Inputs must be less than 60 V dc.

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