



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3644	20-Oct-2021	Number 1	Issue date 20-Oct-2021	30-Apr-2023

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Product designation

System Sensor, Model M221EA, Dual Input, Single Output Module

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Honeywell Security and Fire
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Registrant

Honeywell Security and Fire
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Producer

Pittway Tecnologica S.r.l.
Via Caboto 19/3, TRIESTE, ITALY, 34147

Conformance criteria and evaluation

The System Sensor, Model M221EA, Dual Input, Single Output Module has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS ISO 7240.17:2015, 'Fire detection and alarm systems - Part 17: Short-circuit isolators'.
2. Australian Standard AS ISO 7240.18:2015, 'Fire detection and alarm systems - Part 18: Input/output devices'.

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. Compatibility of this module with new or existing Fire Detection Control and Indicating Equipment (FDCIE) should be verified prior to installation.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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Producer's description

The System Sensor, Model M221EA, Dual Input, Single Output Module provides dual channel monitoring of normally open contact fire alarm and supervisory devices and also provides single pole changeover contacts for the control of auxiliary devices such as fire shutters and sounders.

This equipment has three tri-colour LED's to indicate the status of each channel. LED's IN1 and IN2 refer to the two input channels. Each LED can be set by panel command to pulse green each time the module channel is polled. In case of an alarm, the panel can switch the red indicator on continuously. LED OUT refers to the output channel. The LED can be set by panel command to pulse green each time the channel is polled. The LED will be switched continuously on green by command from the control panel when the relay contacts are in the energised state.

Technical specification

The following details are a representative extract of the technical specification for the System Sensor, Model M221EA, Dual Input, Single Output Module and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of properties/characteristics

The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment.

Property/characteristic	M221EA
Operating voltage	15 – 32 Vdc (min – max)
Operating temperature range	-20 to +60°C
Humidity	5 – 95% RH (non-condensing)
Mass / length x width x depth	118 g / 93 mm x 97 mm x 22 mm
Voltage at which the isolator opens	6 Vdc ($V_{SO \text{ min}}$)
	8 Vdc ($V_{SO \text{ max}}$)
Voltage at which the isolator closes	4 Vdc ($V_{SC \text{ min}}$)
	7 Vdc ($V_{SC \text{ max}}$)
Permanent current with isolator closed	350 mA ($I_{C \text{ max}}$)
Switching current	1.1 A ($I_{S \text{ max}}$)
Continuous current	1.0 A ($I_{C \text{ max}}$)
Leakage current with isolator open	13 mA ($I_{L \text{ max}}$)
Serial impedance when isolator is closed.	70 m Ω ($Z_{C \text{ max}}$)

Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
Report	CSBA0025/R1	Evaluation for Conformity of the System Sensor/Notifier, Input/Output Modules with Short Circuit Isolators to the requirements of AS ISO 7240.17:2015 and AS ISO 7240.18:2015	31-Aug-2021	CSIRO, Fire Systems Laboratory, AU
Doc.ref.	I56-4400-001	System Sensor, M210EA M220EA M221EA, INSTALLATION INSTRUCTIONS - M210EA / M220EA INPUT MODULES, M221EA INPUT /OUTPUT MODULE, M221E INPUT /OUTPUT MODULE, (I56-4400-001-M210EA-M220EA-M221EA.pdf)	9-Apr-2021	Pittway Tecnologica S.r.l., TRIESTE, ITALY