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CSIRO Verification Services Clayton, Victoria, Australia +61 13 0036 3400 https://activfire.csiro.au

Certificate of Conformity Certificate num. **Registration date** Valid until Version Number Issue date Page 1 of 5 afp - 3850 10-Oct-2023 30-Apr-2025 1 20-Dec-2023 This certification is issued within the **Product designation** scope of CSIRO Verification Services - Rules governing ActivFire Scheme Notifier, ECS-16, emergency warning control and indicating equipment and is valid only for the product(s) as submitted for evaluation and (Refer to the Schedule/enclosures for further specified details) verification of conformity, subject to the following conditions. Agent/distributor Reference to details, limitations and requirements, where Honeywell Security and Fire documented as a 9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153 schedule/enclosure with this certificate. Registrant their attestation of conformity and ensuring that on-going Johnson Controls Fire Detection production complies with the 17 Mary Muller Drive, Hillsborough, Christchurch, NEW ZEALAND, 8022 conformance criteria defined in this certificate. Producer Johnson Controls Fire Detection 17 Mary Muller Drive, Hillsborough, Christchurch, NEW ZEALAND, 8022 not been notified and validated by CSIRO Verification Services. **Conformance criteria and evaluation** This certificate is subject to periodical re-validation upon The Notifier, ECS-16, emergency warning control and indicating equipment has been evaluated verification that all and verified as conforming with the relevant requirements of the following criteria. the conformity assessment Australian Standard AS 4428.16:2020, 'Fire detection, warning, control and intercom systems body, continue to be satisfactorily met by the Control and indicating equipment Part 16: Emergency warning control and indicating Registrant. equipment'. This certificate may only be reproduced in its published Australian Standard AS 4428.4:2016, 'Fire detection, warning, control and intercom systems form, without modification and

- 2. Control and indicating equipment Part 4: Emergency intercom control and indicating equipment'.
- 3. Australian Standard AS 7240.4:2018, 'Fire detection and alarm systems - Part 4: Power supply equipment (ISO 7240-4:2017, MOD)'.

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.

All parts of the EWCIE and EICIE shall be mounted in a single enclosure or adjacent enclosures, i. and

(Limitations/conditions of conformance continue)

- The Registrant is responsible for
- This certificate will not be valid if any changes or modifications are made to the product which have
- requirements, as determined by
- 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

Kaj Loh Executive Officer - ActivFire Scheme





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This certificate remains the property of CSIRO and may be subject to amendment, suspension or withdrawal at any time. The validity and authenticity of this certificate can be verified by the certification register located at https://activfire.csiro.au

Schedule to Certificate of Conformity

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- ii. the EWCIE/EICIE enclosure shall be fitted with the labels as described in the evaluation for conformity report, and
- iii. the EWCIE/EICIE shall be installed and maintained as recommended by the producer and in accordance with the general requirements of these Limitations/conditions of conformance.
- iv. The EWCIE/EICIE is used with a power supply that conforms with AS 7240.4.

Producer's description

The Notifier, ECS-16, emergency warning control and indicating equipment is a Grade 1 Emergency Warning CIE with an integrated Emergency Intercommunications CIE. It is modular and expandable to meet site requirements. It can operate standalone with one or more adjacent cabinets, or with up to 64 ECS-16 panels in a site -wide networked system. Each ECS-16 supports:

- Control & indication for up to 224 evacuation zones and 224 WIP rows (3 WIP buttons each).
- Up to 56 amplifier modules rated at 4 × 25W, 4 × 60W, 2 × 120W and 1 × 240W RMS.
- 100V Speaker circuit Splitter module to provide 4 short-circuit isolated outputs.
- 16 × 27A Power Supply modules.
- Up to 16 paging consoles, common background music input, local BGM input per amplifier.
- Copper cable RS485 networking with up to 64 ECS-16 panels.
- Fibre optic cable networking with up to 64 ECS-16 panels.
- Touchscreen LCD for optional recalls and fault information.
- Up to 120 minutes of digital audio storage, with flexible playback options.

The ECS-16 provides automatic operation in the case of emergency activation, using a pre-configured phased evacuation scheme based on the input(s) in alarm. Manual control of the system is also possible using the front panel controls and indication. An emergency public address microphone allows the broadcast of verbal instructions to building occupants in all, or selected areas.

Under non-emergency conditions the ECS-16 can also be used to distribute background music (BGM), routine public address announcements, and pre-programmed messages to selected zones.

Technical specification

The following details are a representative extract of the technical specification for the Notifier, ECS216, emergency warning control and indicating equipment and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of components and/or assemblies

The following is a schedule of validated components and/or assemblies of the certified/listed equipment.

| Part no. / spare | Description | Model / Component | Version / Checksum | |
|------------------------------------|---|----------------------|--|--|
| N450C00 / 502010 | FCC 1C Main Lloor Interface Madule | MUI LCD Module | 1.1 1609B969 | |
| ME0600 / FP2010 | ECS-16 Main User Interface Module | МКІ | 1.0 BD25E4B1 | |
| ME0601 / FP2011 | ECS-16 8 Zone/8 WIP User Interface Extender Module | - | - | |
| ME0602 / FP2012 | ECS-16 16 WIP User Interface Extender Module | - | - | |
| ME0603 / FP2013 | ECS-16 16 Zone User Interface Extender Module | - | - | |
| ME0606 / FP2000 | ECS-16 Controller Module | ECS-16 Controller | 1.1 CTRL 1.1 B11A19C1 Linux OS = 4.9.288 1.1 C8BB416B | |
| ME0607 / FP2003 | ECS-16 WIP / Input Module | WIP Modules | 1.1 6472D1F9 | |
| ME0608 / FP2002 | ECS-16 Relay Output Module | ROM Modules | 1.1 1FD16937 | |
| ME0609 / FP2005 | ECS-16 RS485 Network Module | RS485 Network Module | 1.0 2B0E4DA6 | |
| ME0610 | ECS-16 IP Networking Module | - | - | |
| ME0611 / FP2001 ME0612 / FP2001 | ECS-16 27A PSE (two equivalent variants) | PSE Modules | 1.3 2C686721 | |
| ME0613 / FP2006 | ECS-16 4 x 25W Amplifier Module | | | |
| ME0614 / FP2007 | ECS-16 4 x 60W Amplifier Module | Amplifier Module | 1.1 1C49E048 | |
| ME0615 / FP2008 | ECS-16 2 x 120W Amplifier Module | | | |

Schedule to Certificate of Conformity

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| Part no. / spare | Description | Model / Component | Version / Checksum | |
| ME0616 / FP2009 | ECS-16 240W Amplifier Module | | | |
| ME0619 ECS-16 4 x 60W Amplifier Module (basic) | | | | |
| ME0623 / FP2019 | ECS-16 Fan Cooling Module | - | - | |
| ME0625 / FP2021 | ECS-16 8 Zone Expansion Bd | 8 Zone Extender Modules | 1.2 9CA4E04B | |
| ME0626 / FP2022 | ECS-16 8 WIP Expansion Bd | 8 WIP Extender Modules | 1.2 C4B0BA60 | |
| ME0628 | ECS-16 2x4 way 100V Splitter Module | - | - | |

Schedule of mandatory functions and optional functions with requirements

The following schedule of AS 4428.16:2020 optional (or optional required) functions with requirements have been validated for the appropriate EWCIE grade as nominated.

| Opt | Grade 1 | |
|-----|---|---------------|
| 1. | Indications: | |
| | a. Alarm signals (Cl 7.2) | Provided |
| | a. Alert signal (Cl 7.3) | Provided |
| | b. Audible signal of alarm signal reception (Cl 7.6) | Provided |
| 1. | Controls: | |
| | a. Delay before emergency warning condition (Cl 7.7) | Provided |
| | b. Phased evacuation for multi-zoned systems (Cl 7.8) | Provided |
| | c. Silencing the emergency warning condition from the emergency detection system (Cl 7.9.1) | Not permitted |
| | d. Silencing the emergency warning condition with a manual control (Cl 7.9.2) | Provided |
| | e. Reset of the emergency warning condition from the emergency detection system (Cl 7.10.1) | Not permitted |
| | f. Reset of the emergency warning condition with a manual control (Cl 7.10.2) | Provided |
| | g. Automatic/manual mode control (Cl 11.1) | Provided |
| | h. Manual control to distributed EWCIE (Cl 11.2) | Provided |
| | i. Individual emergency zone controls (Cl 12.1) | Provided |
| | j. All alert control (Cl 12.2.2) | Provided |
| | k. All live speech control (Cl 12.2.3) | Provided |
| | I. All evacuate control (Cl 12.2.4) | Provided |
| 2. | Outputs: | |
| | a. Output to warning devices (Cl 7.11) | Provided |
| | b. Emergency warning condition output signal (Cl 7.12) | Provided |
| 3. | Disabled condition (Cl 9) | Provided |
| 4. | Test condition and indication (Cl 10) | Provided |
| 5. | Interface to external device(s) (Cl 13) | Not provided |
| 6. | Emergency microphone (Cl 14) | Provided |
| 7. | Integrity of transmission paths: | |
| | a. Paths to remote power supplies (Cl 15.5.4) | Not provided |
| 8. | Redundant power amplifiers (Cl 15.15) | Provided |
| 9. | Operational | |
| | a. Dry heat, steady state test (operational) (Cl 18.9) | Not claimed |

The following schedule of AS 4428.4:2016 optional (or optional required) functions with requirements have been validated for the appropriate EICIE grade as nominated.

| Option | Grade 1 |
|--|---------------|
| 1. Fault warning condition: | |
| a. External silencing of the EICIE fault condition (Cl | 8.8) Provided |
| 2. Zone cleared condition (Cl 9) | Provided |
| 3. Controls: | |
| a. Manual control for networked EICIE (Cl 10) | Not provided |
| b. Manual controls of EICIE (Cl 11) | Provided |
| c. WIP group call control (Cl 11.2) | Provided |
| d. Interface to external control device(s) (Cl 12) | Not provided |
| 4. Integrity of transmission paths: | |
| a. Paths to remote power supplies (Cl 13.5.4) | Not provided |
| 5. Operational | |
| b. Dry heat, steady state test (operational) (Cl 16.6 | Not claimed |

Schedule of periphal equipment

The following is a schedule of peripheral equipment of the certified/listed equipment.

| _ | Part No. | Description |
|---------------------------------|----------|--------------------------|
| _ | FP0938 | WIP Phone Handset |
| SU0608 Manual Call Point, White | | Manual Call Point, White |
| FP0539B Paging Console | | Paging Console |

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|---|----------------------|---------|------------------|----------------|---------------------|-----------------------------|------------------------|--------------------|
| Certificate num. Registration date Version Valid until afp - 3850 10-Oct-2023 Number Issue date 30-Apr-2025 Page 4 of Part No. Description 1 20-Dec-2023 30-Apr-2025 Page 4 of IOUV Attenuator 100 V attenuator with 24 V DC override Sochedule of properties/characteristics Sochedule of properties/characteristics The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment. Parameter Value Value Emergency conses of indication and control in one panel. Installation is standards may require several cabinets to achieve this. Up to 256 panels in a networked system. Cabinet Dimensions (approx.) 275(w) x 1330(d) mm 280: 575(w) x 1380(d) mm 28U: 575(w) x 1380(d) mm Gabinet finish: Powder coated Cabinet finish: Cabinet finish: Powder coated Cabinet oner Black Mounting: Wall mount Main sinput: 230 or 240 VAc 10%/-15%, 50-60 Hz, 4.2 A peak per PSE unit Internal power supply unit). Up to four PSE may be fitted in a cabinet to meet load requirements. Standby battery: 24 VVEL type, up to 150 Ab (whit four PSE). Battery tow / fail / disconnected, charger fail Operating Femperature: | | | • | | | | • - | |
| Certificate num. Registration date Version Valid until afp - 3850 10-Oct-2023 Number Issue date 30-Apr-2025 Page 4 of Part No. Description 1 20-Dec-2023 30-Apr-2025 Page 4 of IOUV Attenuator 100 V attenuator with 24 V DC override Schedule of properties/characteristics Steed with any requires of indication and control in one panel. Installation System capacity: Up to 2000 W amplifier capacity in any one cabinet (40U). Up to 224 emergency comes of indication and control in one panel. Installation istandards may require several cabinets to achieve this. Up to 256 panels in a networked system. Cabinet Dimensions (approx.) 275(w) x 1330(h) x 380(d) mm 280U: 575(w) x 165(h) x 380(d) mm Cabinet Thish: Powder coated Cabinet one: Cabinet one: Cabinet one: Maunting: Wall mount 230 or 240 VAC +10%/-15%, 50-60 Hz, 4.2 A peak per PSE unit Internal power supply unit). Up to four PSE may be fitted in a cabinet to meet load requirements. Standby battery: 24 VVRLA type, up to 150 Ab (with four PSE). Battery tow fail / disconnected, charger fail Operanting Temperature: 5 9 Cc 5 5 C Operanting Humidity: 100 V Act at 25 W, 60 W, 120 W, or 240 Wa corealised for use with clean contact or NPM open dircuit supervision. VRub pone dircuit | | | Ce | ertitie | cate of | t Contorr | nity | |
| arp - 3850 10-Oct-2023 1 20-Dec-2023 30-Apr-2025 Part No. Description 100V Attenuator 100 V attenuator with 24 V DC override Schedule of properties/characteristics The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment. Parameter Value System capacity: Up to 2000 W amplifier capacity in any one cabinet (40U). Up to 224 emergency zones of indication and control in one panel. Installation standards may require several cabinets to achieve this. Up to 256 panels in a networked system. Cabinet Dimensions (approx.) 230: 575(w) x 1330(h) x 380(d) mm Cabinet naterial: Zintex zinc coated steel 1.6 mm thick Cabinet finish: Powder coated Cabinet colour: Titania or Black Mounting: Wall mount Mains input: 230 or 240 VC 410%/-15%, 50-60 Hz, 4.2 A peak per PSE unit Internal power supply: 240 VCR 410%/-15%, 50-60 Hz, 4.2 A peak per PSE unit Standby battery: 24 VVRA thype. up to 150 Ah (with four PSE). Battery charger: 27.3 VDC (nominal float voltage), up to 2.5 A per PSE (10A with four PSE) PSU supervision: Battery low / fail / disconnected, charger fail Operating Humidity: | Certificate nu | um. | | | | | - | |
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| use with FP0938 WIP phones, or clean contact MCPs, or both. | | | | | • • | • • | | |
| | WIP phone inputs: | | | | | | • | |
| DCAVE Notwork parts | DC40E Notwark a - 1 | | | | | | both. | |
| RS485 Network ports: Two ports for paired copper cables, in ring mode wiring. Fibre-optic Network ports: Two pairs of fibre-optic cable, either single mode or multimode type, in ring | | | | · · | | , 0 0 | timodo tupo in ring | |
| format wiring. | | ports. | | | • | enner single mode of mut | unoue type, in ting | |

Schedule to **Certificate of Conformity**

| Certificate num. | Registration date | V | ersion | Valid until |
|------------------|-------------------|--------|-------------|-------------|
| -f- 2050 | 40.0.0000 | Number | Issue date | 22.1.2025 |
| afp - 3850 | 10-Oct-2023 | 1 | 20-Dec-2023 | 30-Apr-2025 |

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Supplementary information

Schedule of relevant articles

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

| R | Reference | | Date issued | | |
|-------------|-------------|--|---------------------|---------------------------------------|--|
| Type Ident. | | Title / description | (or date validated) | Source | |
| Report | CSBA0072/R1 | Evaluation for Conformity of the Honeywell Notifier ECS-16 Model QE20, Emergency Warning System to AS 4428.16:2020, AS 4428.4:2016, and AS 7240.4- 2018. | 20-Dec-2023 | CSIRO Fire Systems Laboratory, AU. | |
| | DOC-01-040 | Notifier® Honeywell Emergency Warning System ECS-16 Operations Manual Document DOC-01-040 Rev: A 22/09/2023 Issue 1.0 (DOC-01-040 ECS-16 Operations Manual Iss1.0.pdf) | 22-Sep-2023 | Honeywell Security and Fire | |
| Manual | DOC-01-041 | Notifier® Honeywell Emergency Warning System ECS-16 Installation Manual Document DOC-01-041 Rev: A 22/09/2023 Issue 1.0 (DOC-01-041 ECS-16 Installation Manual Iss1.0.pdf) | 22-Sep-2023 | AU | |