



Certificate of Conformity

| Certificate num. | Registration date | Version | Valid until | |
|-------------------|-------------------|--------------|---------------------------|-------------|
| afp - 2448 | 17-Sep-2010 | Number 10 | Issue date 27-Apr-2019 | 30-Apr-2020 |

Page 1 of 3

Product designation

ROMTECK, Model RM2118 PSTN-PSTN-ASE-F, alarm signalling equipment

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

Agent/distributor

ROMTECK
37 Collingwood Street, OSBORNE PARK, WA, AUSTRALIA, 6017

Registrant

ROMTECK
37 Collingwood Street, OSBORNE PARK, WA, AUSTRALIA, 6017

Producer

ROMTECK
37 Collingwood Street, OSBORNE PARK, WA, AUSTRALIA, 6017

Conformance criteria and evaluation

The ROMTECK, Model RM2118 PSTN-PSTN-ASE-F, alarm signalling equipment has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 4428.6-1997, 'Fire detection, warning, control and intercom systems - Control and indicating equipment - Alarm signalling equipment'.

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 equipment with new or existing actuating devices should be verified prior to installation.
- ii. The ASE must be mounted within c.i.e. or adjacent to the c.i.e. with interconnections not leaving protected enclosures;
- iii. The ASE is connected to a compatible control station.

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

| Certificate num. | Registration date | Version | | Valid until | Page 2 of 3 |
|-------------------|-------------------|--------------|---------------------------|-------------|-------------|
| afp - 2448 | 17-Sep-2010 | Number 10 | Issue date 27-Apr-2019 | 30-Apr-2020 | |

Producer's description

The ROMTECK, Model RM2118 PSTN-PSTN-ASE-F, alarm signalling equipment provides primary communications via a PSTN Line with PSTN backup available. The configurable modes of operation are:

- PSTN Line with PSTN backup. (AS 4428.6 compliant – Engineered solution)
- Single PSTN only.

Primary Connection

The ASE has the capability to utilise any of its communications links communications channels as either the only communications, or the primary link with a secondary backup. Available primary links follow:

PSTN Primary

The ASE continuously monitors the PSTN line for voltage to ensure the line is connected. Alarm inputs and device status are communicated directly to the concentrator by dialling in to report any status change. The PSTN link can also be used to dial in to the ASE and carry out configuration changes or diagnostics operations.

Secondary Connection

The ASE supports the ability to have a secondary or backup communications channel. If the primary connection fails the ASE switches to the configured backup channel (if enabled). In this mode of operation the ASE initially reports that it has changed to secondary communications and then operates as per a non permanent connection.

Only the PSTN link may be used as a secondary link on the RM2118-PSTN-PSTN-ASE-F.

PSTN Secondary

PSTN may be used as a backup to primary PSTN line.

When used as a secondary link, the ASE continuously monitors the PSTN line for voltage and will report any loss of line voltage as a line failure. The PSTN link is used if the primary link fails by dialling in to the monitoring centre, it can also be configured to provide periodic reports which verify the availability of the secondary link. The PSTN link can also be used to dial in to the ASE and carry out configuration changes or diagnostics operations.

Serial Port

An RS232 port is provided to give an alternative communications method as well as configuration and diagnostics capabilities. This port allows configuration of all operating parameters within the ASE via an easy to use windows application ASE maintenance.

RS485 Port

An RS485 port is provided for expansion of unit capacity by polling either attached RM2118 ASE device or communicating directly to a fire panel.

Technical specification

The following details are a representative extract of the technical specification for the ROMTECK, Model RM2118 PSTN-PSTN-ASE-F, alarm signalling equipment and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Physical

Width: 110 mm

Height: 110 mm

Depth: 66 mm

Weight: 350 grams

Data transmission

PSTN Line

Transmission rate: 2400 baud – Full duplex

Mode: QPSK V.22 BIS

FSK Frequencies: 1200 Hz (originate)

2400 Hz (Answer)

Transmission format: 1 start bit, 8 data bits, no parity, 1 stop bit.

Poll sequence

PSTN line

Schedule to

Certificate of Conformity

| Certificate num. | Registration date | Version | | Valid until | Page 3 of 3 |
|-------------------|-------------------|--------------|---------------------------|-------------|-------------|
| afp - 2448 | 17-Sep-2010 | Number 10 | Issue date 27-Apr-2019 | 30-Apr-2020 | |

Only connected when an alarm occurs or for periodic dial.

Continuously monitored for availability.

Periodic reporting period configurable, default 24 hours.

Power supply

Power feed voltage (at ASE): 8-35V DC - polarity sensitive

Regulated circuit voltage: 3.2V nominal

Reset voltage detector: 3.0V

Typical current drain: 24V operation

15 mA standby.

25 mA transmitting.

Typical current drain: 12V operation

30 mA standby.

50 mA transmitting.

Low battery detection via software with alarm reporting.

An ACA approved and EMI conforming power supply is required to comply with Austel regulations.

Operating conditions

Temperature range: -10 deg C. to +50 deg C.

Humidity 10 % to 95 % non - condensing.

Mechanical shock

Withstands free fall test to BS2011: Part 1.2Ed (IEC 68-2-32. Procedure 1, severity 1000mm, two free falls in each of 3 mutually perpendicular orientations) without damage.

Impulse withstand

Tested to AS 2481 - 5KV impulse test.

Alarm inputs

8 x monitored inputs requires voltage free contacts and resistor network

Open collector outputs

2 x 30v 100mA