



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx CML 18.0140X

Issue No: 0

Certificate history:

Issue No. 0 (2019-07-11)

Status: **Current**

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Date of Issue: **2019-07-11**

Applicant: **Fuji Electric France S.A.S.**
46, Rue Georges Besse-ZI du Brézet, F-63039 Clermont-Ferrand,
Cedex 2
France

Equipment: **Temperature Transmitter models FRC****A and FRC****B**

Optional accessory:

Type of Protection: **Flameproof**

Marking:

Ex db IIC T4, T5, T6 Gb

T4: Tamb = -40 to 80°C

T5: Tamb = -40 to 65°C

T6: Tamb = -40 to 50°C

*Approved for issue on behalf of the IECEx
Certification Body:*

A Snowdon MIET

Position:

Certification Officer

*Signature:
(for printed version)*

A Snowdon

Date:

July 11, 2019

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Date of Issue: **2019-07-11** Page 2 of 3

Manufacturer: **Fuji Electric France S.A.S.**
46, Rue Georges Besse-ZI du Brézet, F-63039 Clermont-Ferrand,
Cedex 2
France

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/CML/ExTR18.0198/00](#)

Quality Assessment Report:

[NL/DEK/QAR12.0062/04](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Temperature Transmitter models FRC****A and FRC****B are flameproof equipment which convert electrical input signals from external sensors (such as resistance temperature sensors, thermocouples, etc) to 4 – 20 mA output signals.

See Annex for full description.

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex for Specific Conditions of Use.

Annex:

[IECEx CML 18.0140X Annex Iss 0.pdf](#)

Annexe to: IECEx CML 18.0140X
Applicant: Fuji Electric France S.A.S.
Apparatus: Temperature Transmitter models
 FRC****A and FRC****B

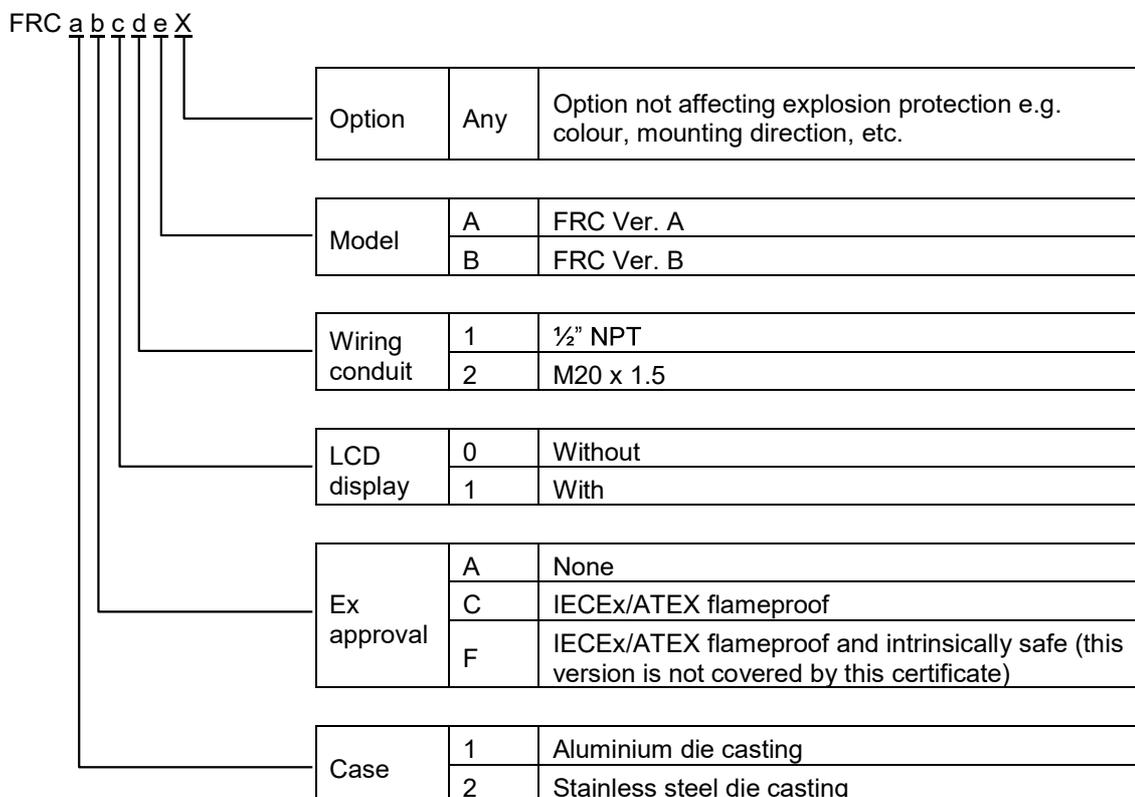


Description

The Temperature Transmitter models FRC****A and FRC****B are flameproof equipment which convert electrical input signals from external sensors (such as resistance temperature sensors, thermocouples, etc) to 4 – 20 mA output signals.

The equipment comprises a number of PCB's mounted inside an aluminium or stainless steel enclosure with threaded entries for cable glands.

The following model numbers and options are covered by this certificate:



The equipment temperature class is dependent upon the ambient temperature range as follows:

| Ambient temperature range | Temperature class |
|---------------------------|-------------------|
| -40°C to +50°C | T6 |
| -40°C to +65°C | T5 |
| -40°C to +80°C | T4 |

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The equipment has the following electrical ratings:

Supply range 12 – 28 Vdc

Output current 4 – 20 mA

Conditions of Manufacture

None.

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment:

i . Model number FRC*F**B has been designed to meet the requirements of flameproof and intrinsic safety. This certificate covers the flameproof certification only. The end-user shall permanently mark an "X" in the box adjacent to the flameproof markings when installing the equipment in accordance with this certificate. The equipment shall be installed in accordance with its instruction manual and with the requirements of IEC 60079-14 for flameproof protection. Equipment which has been marked as having been installed in a flameproof installation shall not subsequently be re-used in an intrinsically safe installation