



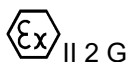
EU Type Examination Certificate CML 18ATEX1277X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Temperature Transmitter models FRC****A and FRC****B**
- 3 Manufacturer **Fuji Electric France S.A.S.**
- 4 Address 46, Rue Georges Besse-ZI du Brézet,
F-63039 Clermont-Ferrand,
Cedex 2
France
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V. , Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 60079-0:2018

EN 60079-1:2014

- 10 The equipment shall be marked with the following:



Ex db IIC T4, T5, T6* Gb

Ta = -40 to +80°C, 65°C, 50°C

* The equipment temperature class is dependent upon the upper ambient temperature, refer to section 11

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11 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:

FRC	a	b	c	d	e	X		
						Option	Any	Option not affecting explosion protection e.g. colour, mounting direction, etc.
						Model	A	FRC Ver. A
							B	FRC Ver. B
						Wiring conduit	1	½" NPT
							2	M20 x 1.5
						LCD display	0	Without
							1	With
						Ex approval	A	None
							C	IECEX/ATEX flameproof
							F	IECEX/ATEX flameproof and intrinsically safe (this version is not covered by this certificate)
						Case	1	Aluminium die casting
							2	Stainless steel die casting

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

The equipment has the following electrical ratings:

Supply range 12 – 28 Vdc

Output current 4 – 20 mA



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12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	11 Jul 2019	R11887A/00	Issue of prime certificate

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of manufacture

None.

14 Specific Conditions of Use (Special Conditions)

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

- 14.1 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 EN 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.



Certificate Annex

Certificate Number CML 18ATEX1277X
Equipment Temperature Transmitter types FRC****A and FRC****B
Manufacturer Fuji Electric France S.A.S.

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
20077-AJ-N2-01	1 of 1	1	11 Jul 2019	FRC Flameproof
20077-AJ-N2-02	1 of 1	1	11 Jul 2019	FRC Flameproof
20077-AJ-N2-03	1, 2 & 4 of 5	1	11 Jul 2019	FRC Flameproof
20077-AJ-N2-03	5 of 5	0	11 Jul 2019	FRC Flameproof
20077-AJ-N3-01	1 of 1	1	11 Jul 2019	FRC Knockdown Production