



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 FME 18.0004X

Issue No: 0

Certificate history:

[Issue No. 0 \(2019-07-10\)](#)

Status: **Current**

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Date of Issue: **2019-07-10**

Applicant: **ABB SpA**
Via L Vaccani 4
Tremezzina Ossuccio
Como 22016
Italy

Equipment: **Multivariable Field Indicator, Series 2600T model JDF 300**

Optional accessory:

Type of Protection: **Flameproof, intrinsic safety, & protection by enclosure**

Marking:

Ex db IIC T6 Gb	Ex tb IIIC T85°C Db
Ex ia IIC T6...T4 Ga	Ex ia IIIC T85°C Da
Ex ic IIC T6...T4 Gc	Ex tc IIIC T85°C Dc
FISCO Field Instrument	

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

Andrew Was

Position:

Certification Manager

*Signature:
(for printed version)*

Date:

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:

FM Approvals Ltd
Voyager Place
Maidenhead
Berkshire
SL6 2PJ
United Kingdom



Member of the FM Global Group



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Manufacturer: **ABB SpA**
Via L Vaccani 4
Tremezzina Ossuccio
Como 22016
Italy

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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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/FME/ExTR18.0003/00](#)

Quality Assessment Report:

[IT/CES/QAR07.0001/12](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Series 2600T model JDF300 Field Indicators are designed for remote indication in a Fieldbus system. The Multivariable Field Indicator Type JDF300 is an accessory device of the 2600T Series Transmitters and communicates with any host interface supporting Foundation Fieldbus protocols.

The JDF300 enclosure is the Type 2 ABB enclosure made of aluminium or stainless steel. The enclosure has an IP rating of IP66/67.

Series 2600T model JDF300a3L1bS2c

a = Housing; A, B, S or T

b = Approvals: E8, E9, ER, EH, EI or EN

c = Other options; Not relevant for Ex

Energy limitation parameters (Ex ia)

FF-816 - $U_i = 24V_{dc}$, $I_i = 250mA$, $P_i = 1.2W$, $C_i \leq 5nF$, $L_i \leq 20\mu H$

FISCO - $U_i = 17.5V_{dc}$, $I_i = 380mA$, $P_i = 5.32W$, $C_i \leq 5nF$, $L_i \leq 10\mu H$

Electrical Ratings (Ex ic & Ex tc)

FF-816 $U_i = 32V_{dc}$, $I_i = 250mA$, $P_i = 1.2W$, $C_i \leq 5nF$, $L_i \leq 20\mu H$

FISCO $U_i = 17.5V_{dc}$, $I_i = 380mA$, $P_i = 5.32W$, $C_i \leq 5nF$, $L_i \leq 10\mu H$

Electrical Ratings (Ex db & Ex tb)

$U_i = 32V_{dc}$ $P_i = 2W$

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. When the manufacturer of the equipment has not identified the type of protection on the label, the user shall, on installation, mark the label with the type of protection used.
2. The JDF300 enclosure option a = A or B contains aluminium and is considered to present a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
3. For areas subject to explosive dust atmospheres the painted surface of the JDF300 may store electrostatic charge and become a source of ignition in applications with a low relative humidity $< \sim 30\%$ relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust, or oil. Guidance on protection against the risk of ignition due to electrostatic discharge can be found in IEC TS 60079-32-1. Cleaning of the painted surface shall only be done in accordance with the manufacturer's instructions.
4. Contact the manufacturer for specific flamepath joint details during repair of flameproof Ex d apparatus.