IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx FME 10.0001X**

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Issue No: 8

Certificate history:

Issue 7 (2022-04-29)
Issue 6 (2017-07-24)
Issue 5 (2016-11-25)
Issue 4 (2015-07-20)
Issue 3 (2014-12-08)
Issue 2 (2013-10-22)
Issue 1 (2013-01-30)
Issue 0 (2010-11-05)

Status: **Current**

Date of Issue: 2024-09-01

Applicant: **Expo Technologies Ltd**
Unit 2, The Summit
Hanworth Road
Sunbury on Thames
TW16 5DB
United Kingdom

Equipment: **Electronic Timer Module ETM-IS**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking:

Ex ia IIC T4 Ga Ta = -20°C to +60°C
Ex ia IIIC T142°C Da Ta = -20°C to +60°C

Ex ia IIC T5 Ga Ta = -20°C to +59°C
Ex ia IIIC T141°C Da Ta = -20°C to +59°C

Ex ia IIC T6 Ga Ta = -20°C to +44°C
Ex ia IIIC T126°C Da Ta = -20°C to +44°C

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

Position: **Certification Manager**

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.

Certificate issued by:

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

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Manufacturer: **Expo Technologies Ltd**
Unit 2, The Summit
Hanworth Road
Sunbury on Thames
TW16 5DB
United Kingdom

Manufacturing locations:

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 equipment 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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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 Reports:

GB/FME/ExTR10.0006/00
GB/FME/ExTR10.0006/01
GB/FME/ExTR10.0006/02
GB/FME/ExTR10.0006/03
GB/FME/ExTR10.0006/04
GB/FME/ExTR10.0006/05
GB/FME/ExTR10.0006/06
GB/FME/ExTR10.0006/07

Quality Assessment Report:

GB/EXV/QAR24.0002/00

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The ETM-IS is battery powered electronic timer module. The Timer module is designed to be supplied from a self contained battery pack or separately certified AIS power supply. This battery pack contains a non-rechargeable battery together with current limiting resistors. The timer settings are controlled by two BCD switches located on the main part of the timer. Connections from the timer to a solenoid valve and switch are also provided. The solenoid is supplied as part of the timer circuit. Four LED's are used to indicate the status of the timer circuit. The Timer module and Solenoid Valve are designed to be installed within another enclosure.

a = sub module
1 = Timer Module powered by Electronic Timer Battery Pack, E.P.P.S, or IS-certified Power Supply
3 = Electronic Timer IS Battery Pack
4 = Electronic Timer IS remote Battery Pack

b = Mounting Style
1 = Plate mounted
2 = Panel mounted

c = LED connection
1 = LED's on Timer surface
2 = LED's on flying leads
de = Maximum Time d = Reference Value 1 to 9
e = Multiplying digit 1 = x 1 min, 2 = x 10 min, 3 = x 100 min or 4 = x 1000 min

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The Electronic Timer shall not be used where UV light or radiation may impinge the Electronic Timer System.

2. The Electronic Timer shall be installed within an enclosure which provides protection against impact.

3. The Enclosure shall be metallic providing a minimum ingress protection of IP20.

4. For light alloy enclosures, materials shall not contain, by mass, more than 7.5% in total of magnesium, titanium and zirconium. Where more than 10% in total of aluminium, magnesium, titanium and zirconium the user shall take special precautions to avoid ignition hazard due to impact or friction.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
QAR changed to a new providor - GB/EXV/QAR24.0002

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Additional information:

a = sub module
1 = Timer Module powered by Electronic Timer Battery pack, E.P.P.S or IS-certified Power Supply
3 = Electronic Timer IS Battery Pack
4 = Electronic Timer IS remote Battery Pack

b = Mounting Style
1 = Plate mounted
2 = Panel mounted

c = LED's connection
1 = LED's on Timer surface
2 = LED's on flying leads

de = Maximum Time
d = Reference Value 1 to 9
e = Multiplying digit: 1 = x1 min, 2 = x10 min, 3 = x100 min, 4 = x1000min