



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 EMT 17.0024X Issue No: 0 Certificate history:
Issue No. 0 (2018-06-05)

Status: **Current**

Date of Issue: **2018-06-05** Page 1 of 3

Applicant: **Online Electronics Limited**
Online House, Blackburn Business Park, Woodburn Road, Blackburn, Aberdeen, AB21
0PS
United Kingdom

Equipment: **Electromagnetic Transmitter, EMTx30 Family**
Optional accessory:

Type of Protection: **Flameproof "db"**

Marking: Ex db IIC T5...T6 Gb

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

Stephen Winsor

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](http://www.iecex.com).

Certificate issued by:

Element Materials Technology
Unit 1 Pendle Place
Skelmersdale
West Lancashire
United Kingdom





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Manufacturer: **Online Electronics Limited**

Online House, Blackburn Business Park, Woodburn Road, Blackburn, Aberdeen, AB21 0PS
United Kingdom

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 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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/EMT/ExTR17.0025/00](#)

Quality Assessment Report:

[GB/TRC/QAR11.0002/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The EMTx30X range is comprised of pipeline pig monitoring transmitters housed in a stainless steel or titanium cylindrical enclosure.

The equipment may be powered by 2, 3, 4 or 5 x C cells (Alkaline or Lithium). The enclosure is comprised of a cylindrical housing and two 1.75"-16TPI STUB ACME threaded end caps. The end caps may be one of the following: Standard, Bleed screw, Magnetic or Pressure switch.

The Bleed screw end cap is identical to the standard end cap with an additional M6 x 1.0 threaded joint between the end cap lid and alloy bronze bleed screw (blanking element).

The pressure switch end cap is constructed with an additional cylindrical joint in the end cap lid between the alloy bronze piston, which is a push button used to activate the unit, and the end cap itself.

In end use the EMTx30X is completely housed within a carrier specifically designed for the type of pipe to be inspected. Rating 18.5 Vdc Max 0.7 W

The equipment may include a Bluetooth radio device.

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex

Annex:

[Annex to IECEx EMT 17.0024X iss 0.pdf](#)



Element Materials Technology,
Unit 1, Pendle Place,
Skelmersdale,
West Lancashire, WN8 9PN,
United Kingdom

Annex to IECEx Certificate of Conformity

IECEx EMT 17.00024 issue No.: 0

“Special conditions for use”

1. Only complete sets of new and identical cells must be used.
2. Only the following permitted batteries shall be used with the corresponding ambient temperature and T Class :

| Cell Type | T _{amb} | T Class |
|-----------------|------------------|---------|
| Duracell ID1400 | -20°C to +50°C | T6 |
| Duracell MN1400 | -20°C to +50°C | T6 |
| Duracell MX1400 | -20°C to +50°C | T6 |
| Saft LSH 14C | -40°C to +76°C | T6 |
| Saft LSH 14C | -40°C to +80°C | T5 |
| Varta 4914 | -10°C to +46°C | T6 |
| Energizer E93 | -18°C to +50°C | T6 |

3. Batteries must be installed into the enclosure in accordance with the orientation detailed on the marking label.
4. Repair of flame paths is not permitted by the end user.
5. Do not open when an explosive gas atmosphere may be present.
6. The equipment must be installed, such that ignition sources due to impact and friction sparks are excluded.

Routine Tests

1. None



| “Additional information” |
|--|
| <p><u>Main Body</u></p> <p>EMTx30X-0CX, where the last digit ‘X’ details the number of cells housed within the enclosure, and therefore the enclosure size, and may be 2, 3, 4 or 5.</p> <p><u>End Caps</u></p> <p>All certified endcap assemblies start with code EMTx30X-E e.g.</p> <p>EMTx30X-ES0 – Battery Endcap</p> <p>EMTx30X-ES1 – PCB Endcap</p> <p>EMTx30X-EB# – Bleedscrew Endcap</p> <p>EMTx30X-EM# – Magnetic Activation Endcap</p> <p>EMTx30X-EP# – Pressure Switch Endcap</p> <p>The permitted cells that may be used within the enclosure are:</p> <p>Type C (Duracell ID1400)</p> <p>Type C (Duracell MN1400)</p> <p>Type C (Duracell MX1400)</p> <p>Type E (Saft LSH 14C)</p> <p>Type L (Varta 4914)</p> <p>Type L (Energizer E93)</p> |

| Manufacturer’s Documents | | | |
|---------------------------------|---------------------|--------------------|--------------|
| Title: | Drawing No.: | Rev. Level: | Date: |
| ATEX IECEx File | EMTx30_X001 | A05 | 2018-04-25 |
| | | | |



Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.