



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 10ATEX0318X** Issue: **0**

4 Equipment: **LMT Series Level Transmitter**

5 Applicant: **LMTECH**

6 Address: 18A Lanchester Way, Royal OAK
Industrial Estate, Daventry,
Northamptonshire, England.

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, 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 14.2.


9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2009 EN 60079-1:2007 EN 60079-31:2009

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

 II 2GD
Ex d IIC T5 Gb
Ex tb IIIC T100°C Db IP6X
(Ta = -40°C to 85°C)

Project Number **22798**

C Ellaby
Certification Officer

This certificate and its schedules may only be reproduced in its entirety and without change.



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 10ATEX0318X
Issue 0

13 DESCRIPTION OF EQUIPMENT

The LMT Series Level Transmitter consists an electronics enclosure and attached probe. The enclosure can be aluminium or stainless steel and has two compartments; one contains the microprocessor board assembly and calibration push buttons, the other side contains the field wiring termination board. The electronics module is connected to the detector board of the probe sensor assembly via a plug-in cable. The probe is typically made of stainless steel and is available in other equivalent metals, it is sealed on one end with the magnetostrictive waveguide sensor in the centre. In addition to the magnetostrictive waveguide, the probe sensor also houses the optional temperature sensor and the sensing elements. The probe is available in lengths of 1 foot – 60 foot in a rigid construction. The electronic housing is fitted with three conduit openings; one for the probe, another for the electrical power connections and one spare (for symmetry) which is fitted with a stopping plug.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	04 January 2011	R21798A/00	The release of the prime certificate.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

15.1 Under rated conditions, the branching point at the entry point may reach 85.6°C, therefore, when choosing cables and cable glands this shall be taken into account.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 Each electronics enclosure shall be subjected to a routine overpressure test of 38.66 Bar. The pressure shall be maintained for at least 10 s as required by clause 16 of EN 60079-1. There shall be no leakage, permanent deformation or damage.