



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 16ATEX2303X** Issue: **0**

4 Equipment: **Pressure Transmitter/XPZ-XXXX-X-X-I**
Pressure Transmitter/XPZH-XXXX-X-I
Load Cell Transmitter/XLZ-X-XXXX-I

5 Applicant: **Tecsis LP**

6 Address: 771-F Dearborn Park Lane
Worthington
Ohio 43085
USA

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 Articles 17 and 21 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 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 60079-0:2012/A11:2013 EN 60079-11:2012

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-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 1GD

Ex ia IIC T4 Ga

Ex ia IIIC T135°C Da


Ta = -40°C to 85°C unless limited by the following components

-40°C to 80°C when used with marine cable or Hawke, 501/453 UNIV cord grip

-20°C to 70°C when used UL style 2464 Cable

-20°C to 85°C when used with Hummel HSK cord grip

Project Number 70050826


N Jones
Certification Manager

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

Sira Certification Service

Unit 6 Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670900
Fax: +44 (0) 1244 681330
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

**Sira 16ATEX2303X
 Issue 0**

13 DESCRIPTION OF EQUIPMENT

Model XPZ-XXXX-X-X-I low, middle and high range pressure transmitter rated 10-28 Vdc, 4-20 mA. Minimum current is 2.25 mA and maximum current is 25 mA. Pressure ranges are from 0 - 2 psi to 0 - 20,000 psi. The pressure transmitter is provided both as gauge pressure and absolute pressure and is available with a variety of pressure connections (ports) and electrical terminations.

Model XPHZ-XXXX-X-I middle and high range Hammer Union pressure transmitter rated 10-28 Vdc, 4-20 mA. Ranges from 0 - 2,000 psi to 0 - 20,000 psi. The transmitter is available with a variety of electrical terminations.

Model XLZ-X-XXXX-I load cell transmitters rated 10-28 Vdc, 4-20 mA. A variety of enclosures are available for measuring different ranges and different methods of locating the strain gage.

The pressure transmitters and load cell transmitters are intrinsically safe when connected per drawing 98-1005-0000 with the following entity parameters: $U_i = 28$ Vdc, $I_i = 110$ mA, $P_i = 0.9$ W.

All units have a three board amplifier identified as "top", "middle" and "bottom" board. There is a Compensation board between the amplifier and the pressure sensor.

The Hammer Union has a slightly modified three board amplifier, a Lightning/Surge board and a Compensation Board that is packaged as an annulus rather than a rectangle shape.

The equipment has been assessed as IP66 in accordance with IEC 60529; testing was not performed in accordance with the pre-conditioning requirements of EN 60079-0.

The equipment has the following entity parameters per control drawing 98-1005-0000:

$U_i = 28$ Vdc, $I_i = 110$ mA, $C_i = 33.4$ nF (see note), $L_i = 1\mu$ H for models XPZ and XLZ 710 μ H for model XPHZ (see note), $P_i = 0.9$ W

Note: Transducers with integral cable

For models XPZ & XLZ	For model XPHZ
Max cable length = 500 ft	Max cable length = 130 ft
C_i max = 63.4 nF	C_i max = 41.2 nF
L_i max = 501 μ H	L_i max = 840 μ H

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	10 November 2016	R70050826A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

15.1 The equipment shall be installed per drawing 98-1005-0000 and supplied by a shunt zener diode barrier, which requires connection to a barrier earth in accordance with IEC/EN 60079-14.

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

Sira Certification Service

Unit 6 Hawarden Industrial Park,
 Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670900
 Fax: +44 (0) 1244 681330
 Email: ukinfo@csagroup.org
 Web: www.csagroupuk.org



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 16ATEX2303X
Issue 0

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 MANUFACTURE**

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 The manufacturer shall take all reasonable steps to ensure that the user/installer complies with the Specific Conditions of Use and provide a copy of drawing 98-1005-0000 Revision -.

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