



EC-TYPE EXAMINATION CERTIFICATE

- 1.
2. **Equipment or Protective System Intended for use in
Potentially Explosive Atmospheres Directive 94/9/EC**
3. EC-Type Examination Certificate Number: ITS03ATEX21213X
4. Equipment or Protective System: 4 - 2HT PRESSURE TRANSMITTER
5. Manufacturer: DELTA CONTROLS LTD
6. Address: Island Farm Avenue, West Molesey, Surrey KT8 2UZ
7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. The ITS Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report Number:
ITS Report Ref 02009442 Issue 1, dated July 2003
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997+ Amds 1 & 2, EN 50020:2002 and EN 50284:1999
except in respect of those requirements listed at item 18 of the Schedule.
10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
12. The marking of the equipment or protective system shall include the following:-



II 1 G, EEx ia IIC T4 Tamb= 80°C

ITS Testing & Certification Limited
ITS House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977
<http://www.etlsemko.com/uk>
Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

R M Adams
Deputy Certification Manager
28 July 2003

This certificate may only be reproduced in its entirety and without any change, schedule included.

13. Schedule

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21213X

15. Description of Equipment or Protective System.

The 4 -2HT Pressure Transmitter measures gauge or absolute pressure and transmits a traditional 4-20 mA signal or alternatively as a signal using the HART protocol.

The transmitter is available in four options. These are uniquely identified by means of the tenth character (1, 2, A or B) in the product code:

- | | |
|---|--|
| 1 | 50 V dc maximum voltage between circuit and case, blind instrument |
| 2 | 50 V dc maximum voltage between circuit and case, instrument with indicator |
| A | 500 V ac maximum voltage between circuit and case, blind instrument |
| B | 500 V ac maximum voltage between circuit and case, instrument with indicator |

The transmitter contains three printed circuit boards and employs surface mounted technology devices. The main circuit elements are analogue to digital converters a 16 bit micro controller and a modem IC. The analogue output of the sensors is converted into a digital format and read by the micro controller. The micro controller then compensates for errors and temperature fluctuations before providing either a conventional 4 -20mA output or relays data digitally via the modem in the HART protocol.

There is circuit protection for over voltage and reverse polarity conditions and EMC.

The LCD is either incorporated within the transmitter enclosure where it can be viewed via a window or alternatively a hand held version may be used.

The sensors are either a metallic or semiconductor four wire strain gauge bridge having a resistance between 3 000 and 10 000 ohms. They are coupled to a diaphragm or diaphragm assembly so as to be sensitive to changes in applied pressure. According to the type of sensor, the pressure may be referenced as gauge, absolute or differential.

The pressure transmitter safety parameters are:

- $U_i = 30 \text{ V}$
- $I_i = 130.9 \text{ mA}$
- $P_i = 0.6688 \text{ W}$
- $L_i = 30 \text{ } \mu\text{H}$
- $C_i = 16 \text{ nF}$

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13. Schedule

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21213X

16. Report No. ITS Report Ref 02009442

17. SPECIAL CONDITIONS FOR SAFE USE

1. The pressure transmitter may be fitted with an integral display or alternatively, when the blanking plate is removed, a hand held display may be inserted into the socket provided. The removal of the blanking cover is only permitted in a non-hazardous area.
2. The pressure transmitters intended for operation at 50 V dc do not meet the requirements of EN 50020:2002 clause 6.4.12 (Electrical Strength Test). This shall be taken into account when installing the apparatus in a potentially explosive atmosphere.

18. Essential Health and Safety Requirements

The relevant EHSR's that have not been addressed by the standards listed in this certificate have been identified and assessed in ITS Report Ref 02009442 Issue 1, dated July 2003

19. DRAWINGS

Number	Issue	Date	Description
14726, sheets 1 to 13	A	15/07/2003	ATEX Approval Drawing for 4-*HT Smart Series EEx ia
14726, sheets 14 to 24	A	19/05/03	ATEX Approval Drawing for 4-*HT Smart Series EEx ia

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1. **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in
Potentially Explosive Atmospheres Directive 94/9/EC**
3. Supplementary EC-Type Examination Certificate Number: **ITS03ATEX21213X/1**
4. Equipment or Protective System: **4 - 2HT PRESSURE TRANSMITTER**
5. Manufacturer: **DELTA CONTROLS LTD**
6. Address: **Island Farm Avenue, West Molesey, Surrey KT8 2UZ**
7. This supplementary certificate extends EC-Type Examination Certificate Number ITS03ATEX21213X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.
8. Project number 02009442

This Supplementary Certificate shall be held with the original Certificate


R M Adams
Deputy Certification Manager
2nd September 2003

ITS Testing & Certification Limited
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Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21213X/1

VARIATION ONE

Description of the Variation to the Equipment or Protective System.

To permit the following changes:

1. D12 and R15 are removed from the circuit.
2. R 77 R78 R79 and R80 are added.
3. Drawing No. 14726 is corrected.

The above changes do not impair Intrinsic Safety and the Temperature Class of the apparatus is unaltered.

SPECIAL CONDITIONS FOR SAFE USE

See original certificate

Essential Health and Safety Requirements

See original certificate

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Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21213X/1

DRAWINGS

Number	Issue	Date	Description
14726 sheet 5	B	15/08/2003	ATEX Approval Drawing for 4-*HT Smart Series EEx ia – Middle board parts list
14726 sheet 10	B	15/08/2003	ATEX Approval Drawing for 4-*HT Smart Series EEx ia – Modem and current control

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Intertek ETL SEMKO

1. **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
3. Supplementary EC-Type Examination Certificate Number: **ITS03ATEX21213X/2**
4. Equipment or Protective System: **4 - 2HT PRESSURE TRANSMITTER**
5. Manufacturer: **DELTA CONTROLS LTD**
6. Address: **Island Farm Avenue, West Molesey, Surrey KT8 2UZ**
7. This supplementary certificate extends EC-Type Examination Certificate Number ITS03ATEX21213X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.

Intertek Project Ref 05016710

This Supplementary Certificate shall be held with the original Certificate

R M Adams
Certification Manager
13 May 2005

Intertek Testing & Certification Limited
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Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21213X/2

VARIATION TWO

Description of the Variation to the Equipment or Protective System.

To permit minor changes to the Top Board printed circuit board layout.

The changes do not impair intrinsic safety.

Report No.

None

SPECIAL CONDITIONS FOR SAFE USE

See original certificate

Essential Health and Safety Requirements

See original certificate

DRAWING

Number	Issue	Date	Description
14726 Sheet 17	B	01/04/05	Top Board PCB

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Intertek Industrial

1. **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in
Potentially Explosive Atmospheres Directive 94/9/EC**
3. Supplementary EC-Type Examination Certificate Number: **ITS03ATEX21213X/3**
4. Equipment or Protective System: **4 - 2HT PRESSURE TRANSMITTER**
5. Manufacturer: **DELTA CONTROLS LTD**
6. Address: **Island Farm Avenue, West Molesey, Surrey KT8 2UZ**
7. This supplementary certificate extends EC-Type Examination Certificate Number ITS03ATEX21213X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.

Intertek Project Ref 06021271

This Supplementary Certificate shall be held with the original Certificate

**A Austin
Head of Department
12 July 2006**

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Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21213X/3

VARIATION THREE

Description of the Variation to the Equipment or Protective System.

To permit changes to the schematic and printed circuit board layout of the Middle Board. The equivalent parameters, C_i and L_i , at the supply terminals are unchanged.

The changes do not impair intrinsic safety.

Report No.

None

SPECIAL CONDITIONS FOR SAFE USE

See original certificate

Essential Health and Safety Requirements

See original certificate

DRAWINGS

Number	Issue	Date	Description
14726 Sheet 25	A	11/07/06	Middle Board Schematic
14726 Sheet 26	A	11/07/06	Middle Board Schematic
14726	A	30/06/2006	Middle Board Parts List

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1. **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
3. Supplementary EC-Type Examination Certificate Number: **ITS03ATEX21213X/4**
4. Equipment or Protective System: **4 - 2HT PRESSURE TRANSMITTER**
5. Manufacturer: **DELTA CONTROLS LTD**
6. Address: **Island Farm Avenue, West Molesey, Surrey KT8 2UZ**
7. This supplementary certificate extends EC-Type Examination Certificate Number ITS03ATEX21213X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.

Intertek Report Ref 07028974 dated December 2009.

This Supplementary Certificate shall be held with the original Certificate



A T Austin
Certification Officer
Date: 02 December 2009

Intertek Testing & Certification Limited
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Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER: ITS03ATEX21213X/4

VARIATION FOUR

Description of the Variation to the Equipment or Protective System.

To permit the following change:

1. Addition of a note relating to copper thickness of printed circuit board tracks on relevant printed circuit board drawings.
2. The middle board schematic has been redrawn on one sheet.
3. Deletion of reference to the copper finish on the appropriate printed circuit board drawings.

The above changes do not impair intrinsic safety. The entity parameters are unchanged.

4. Assessment of the 4 – 2HT Pressure Transmitter to the standards listed below.
EN 60079-0:2006
EN 60079-11:2007
EN 60079-26:2007

The equipment coding is:



II 1 G, Ga Ex ia IIC T4 (Tamb = -20°C to +80°C)

Report No.

Intertek Report Ref 07028974 Issue 1 dated November 2009.

CONDITIONS OF CERTIFICATION

(a) Special Conditions for Safe Use:

The conditions in the original certificate are repeated as:

1. The pressure transmitter may be fitted with an integral display or alternatively, when the blanking plate is removed, a hand held display may be inserted into the socket provided. The removal of the blanking cover is only permitted in a non-hazardous area.
2. The pressure transmitters intended for operation at 50 V dc do not meet the requirements of EN 60079-11:2007 clause 6.3.12 (Dielectric strength requirement). This shall be taken into account when installing the apparatus in a potentially explosive atmosphere.

(b) Conditions for Use (Routine Tests):

None

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Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER: ITS03ATEX21213X/4

Essential Health and Safety Requirements

See original certificate

DRAWINGS

Number	Issue	Date	Description
14726, sheet 1	B	19/11/2009	ATEX Approval Drawing for 4-*HT Smart Series
14726, sheets 2- 4, 6-9, 13	A	15/07/2003	ATEX Approval Drawing for 4-*HT Smart Series
14726, sheets 14, 15, 21, 23	A	19/05/2003	ATEX Approval Drawing for 4-*HT Smart Series
14726, sheets 16, 18, 22, 24-26	B	25/11/2009	ATEX Approval Drawing for 4-*HT Smart Series
14726, sheet 17	B	01/04/2005	ATEX Approval Drawing for 4-*HT Smart Series
14726	A	30/06/2006	ATEX Approval Drawing for 4-*HT Smart Series
14726, sheet 28	A	25/11/2009	ATEX Approval Drawing for 4-*HT Smart Series

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1. **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in
Potentially Explosive Atmospheres Directive 94/9/EC**
3. Supplementary EC-Type Examination Certificate Number: ITS03ATEX21213X/5
4. Equipment or Protective System: **4 - 2HT PRESSURE TRANSMITTER**
5. Manufacturer: **DELTA CONTROLS LTD**
6. Address: **Island Farm Avenue, West Molesey, Surrey KT8 2UZ**
7. This supplementary certificate extends EC-Type Examination Certificate Number ITS03ATEX21213X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.

Intertek Report Ref 11055849 Issue 1 dated February 2012

This Supplementary Certificate shall be held with the original Certificate



A T Austin
Certification Officer
Date: 28 February 2012

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Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER: ITS03ATEX21213X/5

VARIATION FIVE

Description of the Variation to the Equipment or Protective System.

To permit the following change:

1. Addition of alternative plug and socket arrangement for connection of external intrinsically safe circuits.

The above change does not impair intrinsic safety. The maximum intrinsically safe input parameters are unchanged.

2. Assessment of the 4 – 2HT Pressure Transmitter to the standards listed below.
EN 60079-0:2009
EN 60079-11:2012
EN 60079-26:2007

The equipment coding is:



II 1 G, Ex ia IIC T4 Ga (Tamb = -20°C to +80°C)

The input parameters are unchanged and these are:

$U_i = 30 \text{ V}$
 $I_i = 130.9 \text{ mA}$
 $P_i = 0.6688 \text{ W}$

Report No.

Intertek Report Ref 11055849 Issue 1 dated February 2012.

CONDITIONS OF CERTIFICATION

(a) Special Conditions for Safe Use:

The conditions in the original certificate are repeated as:

1. The pressure transmitter may be fitted with an integral display or alternatively, when the blanking plate is removed, a hand held display may be inserted into the socket provided. The removal of the blanking cover is only permitted in a non-hazardous area.
2. The pressure transmitters intended for 50 V dc maximum voltage between circuit and case do not meet the requirements of EN 60079-11:2007 clause 6.3.12 (Dielectric strength requirement). This shall be taken into account when installing the apparatus in a potentially explosive atmosphere.

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Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER: ITS03ATEX21213X/5

(b) Conditions for Use (Routine Tests):

None

Essential Health and Safety Requirements

See original certificate

DRAWINGS

Number	Issue	Date	Description
14726, sheet 1	C	10/02/2012	ATEX Approval Drawing for 4-*HT Smart Series
14726, sheet 8	B	24/02/2012	ATEX Approval Drawing for 4-*HT Smart Series
14726, sheet 29	A	11/01/2012	ATEX Approval Drawing for 4-*HT Smart Series

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2. Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC
3. EC-Type Examination Certificate Number: **ITS03ATEX21213X/6**
4. Equipment or Protective System: **4 - 2HT PRESSURE TRANSMITTER**
5. Manufacturer: **DELTA CONTROLS Ltd**
6. Address: **Dogflud Way, Farnham GU9 7SS**
7. This supplementary certificate extends EC-Type Examination Certificate Number to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.

Intertek Project No. G101864764.

This Supplementary Certificate shall be held with the original Certificate(s).

ITS03ATEX21213X dated 28 July 2003
ITS03ATEX21213X /1 dated 02 September 2003
ITS03ATEX21213X /2 dated 13 May 2005
ITS03ATEX21213X /3 dated 12 July 2006
ITS03ATEX21213X /4 dated 02 December 2009
ITS03ATEX21213X /5 dated 28 February 2012

A T Austin
Certification Officer
Date: 9 April 2015

Intertek Testing & Certification Limited
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Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

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SCHEDULE

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21213X/6

VARIATION 6

Description of the Variation to the Equipment or Protective System.

To permit the following change: -

- Company moved address:

Formerly held by:
DELTA CONTROLS Ltd
West Molesey, Surrey KT8 2UZ

Are now deemed to be held by:
DELTA CONTROLS Ltd
Dogflud Way, Farnham GU9 7SS

Report No.:

Intertek Project No. G101864764.

CONDITIONS OF CERTIFICATION:

(a). Special Conditions for safe use

- There are no additional conditions, see previous certificates.

(b). Conditions For Use (Routine Tests)

- There are no additional conditions, see previous certificates.

Essential Health and Safety Requirements (EHSR's)

See original certificate, the listed change to the Equipment or Protective System has not altered compliance.

Drawings and Documents

Number	Title	Issue	Date
14726	ATEX Approval Drawing for 4-*HT Smart Series EEx ia (VARIATION) (Sheet 0)	C	31/10/2014
14726	ATEX Approval Drawing for 4-*HT Smart Series EEx ia (VARIATION) (Sheet 1)	D	31/10/2014
14726	ATEX Approval Drawing for 4-*HT Smart Series EEx ia (VARIATION) (Sheet 2)	B	31/10/2014
14726	ATEX Approval Drawing for 4-*HT Smart Series EEx ia (VARIATION) (Sheet 3)	B	31/10/2014
14726	ATEX Approval Drawing for 4-*HT Smart Series EEx ia (VARIATION) (Sheet 4)	B	31/10/2014
14726	ATEX Approval Drawing for 4-*HT Smart Series EEx ia (VARIATION) (Sheet 5)	C	31/10/2014
14726	ATEX Approval Drawing for 4-*HT Smart Series EEx ia (VARIATION) (Sheet 6)	B	31/10/2014
14726	ATEX Approval Drawing for 4-*HT Smart Series EEx ia (VARIATION) (Sheet 7)	B	31/10/2014
14726	ATEX Approval Drawing for 4-*HT Smart Series EEx ia (VARIATION) (Sheet 8)	C	31/10/2014
14726	ATEX Approval Drawing for 4-*HT Smart Series EEx ia (VARIATION) (Sheet 9)	B	31/10/2014

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Sheet 2 of 3

Intertek



SCHEDULE

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21213X/6

14726	ATEX Approval Drawing for 4-HT Smart Series EEx ia (VARIATION) (Sheet 10)	C	31/10/2014
14726	ATEX Approval Drawing for 4-HT Smart Series EEx ia (VARIATION) (Sheet 11)	B	31/10/2014
14726	ATEX Approval Drawing for 4-HT Smart Series EEx ia (VARIATION) (Sheet 12)	B	31/10/2014
14726	ATEX Approval Drawing for 4-HT Smart Series EEx ia (VARIATION) (Sheet 27)	B	31/10/2014
14726	ATEX Approval Drawing for 4-HT Smart Series EEx ia (VARIATION) (Sheet 29)	B	31/10/2014

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