

# CERTIFICATE

## (1) EC-Type Examination

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **DEKRA 11ATEX0192 X** Issue Number: 1

(4) Equipment: **Pressure Transmitter Series 3100 and 3200**

(5) Manufacturer: **Mercoid a Division of Dwyer Instruments Inc.**

(6) Address: **102 Indiana Highway 212, Michigan City, IN46360 USA**

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

(8) DEKRA Certification B.V., notified body number 0344 in accordance with Article 9 of the Council 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 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 test report number 214654900.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0 : 2006**

**EN 60079-1 : 2007**

(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, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



**II 2 G Ex d IIC T6...T4**

This certificate is issued on Oktober 14, 2011 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

M. Erdhuizen  
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate DEKRA 11ATEX0192 X**

Issue No. 1

(15) **Description**

The Pressure Transmitter Series 3100 and 3200 measures the pressure of a process and converts it into an electrical 4 - 20 mA analog current signal with digital communication (HART protocol).

Ambient temperature range: -20 °C to +60 °C.  
Process temperature:       max 85 °C for T6  
                                      max 100 °C for T5  
                                      max 130 °C for T4

**Electrical data**

Supply: 11,9 to 42 Vdc  
Output: 4 - 20 mA

**Installation instructions**

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

No. 214654900.

(17) **Special conditions for safe use**

For information regarding the dimensions of the flameproof joints the manufacturer shall be contacted.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 214654900.

**Test Report No. 214654900**

**Pressure Transmitter Series  
3100 and 3200**

Laboratory: **DEKRA Certification B.V.**  
**Utrechtseweg 310**  
**6812 AR Arnhem**  
**The Netherlands**

By order of: **Mercoid a Division of Dwyer Instruments Inc.**  
**102 Indiana Highway 212**  
**Michigan City, IN46360**  
**USA**

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Author	: G. van Cappellen	2011-09-23	Reviewer	: M. Erdhuizen	2011-10-12
Project no	: 214654900				

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This Test Report contains the test results related to the sample(s) tested. The tests results cannot be used for any statement related to the quality of the equipment from running production.

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## 1 Project no. 214654900

### 1.1 Standards applied

Samples of the equipment as described under (1.2) below were subjected to the requirements and tests of the following standards:

EN 60079-0 : 2006  
EN 60079-1 : 2004

The assessment was conducted from 5 July 2011 to 23 September 2011.

### 1.2 Description of the equipment

The Pressure Transmitter Series 3100 and 3200 measures the pressure of a process and converts it into an electrical 4 - 20 mA analog current signal with digital communication (HART protocol).

Ambient temperature range: -20 °C to +60 °C.  
Process temperature: max. 85 °C for T6  
max. 100 °C for T5  
max. 130 °C for T4

### Electrical data

Supply ..... 11,9 to 42 Vdc  
Output ..... 4 - 20 mA

### 1.3 Marking of the equipment

 II 2 G Ex d IIC T6 ... T4

### 1.4 Test documentation – 2<sup>nd</sup> certificate holder

dated

Document no.	RA-124769-00/51, rev. 9 (2 sheets)	12-09-2011
	RA-124766-00/51, rev. 11 (2 sheets)	12-09-2011
Instructions	FR# RA-443807-00, rev. 5 (20 sheets)	9-2011
Instructions	FR# RA-443809-00, rev. 3 (20 sheets)	9-2011

All other documentation is part of test report no. 213999600 issued to Duon System Co., Ltd.

## 2 Instructions for installation and use

The instructions provided with the equipment shall be followed in detail to assure safe operation.

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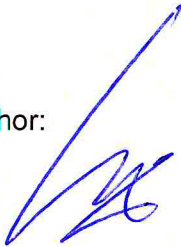
### 3 Test results - 2<sup>nd</sup> certificate holder

The detailed test results are laid down in confidential file/ no. 213999600 and will not be disclosed without written approval of the original manufacturer Duon System Co., Ltd.

### 4 Conclusion

The equipment as described above meets all applicable requirements of the standards as mentioned above. Certification of the equipment is therefore recommended.

Author:



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G. van Cappellen

Reviewer:



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M. Erdhuizen

Endorsed on 14 Oktober by:



M. Erdhuizen  
Certification Manager

**END OF TEST REPORT**