



# CERTIFICATE

## 1 Type Examination Certificate

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 2014/34/EU

3 Type Examination Certificate Number: **KIWA 15ATEX0035 X** Issue: **2**

4 Product: **SMART Transmitter Power Supply Model HiC2025 and  
SMART Current Driver Model HiC2031**

5 Manufacturer: **Pepperl+Fuchs GmbH**

6 Address: **Lilienthalstraße 200, 68307 Mannheim  
Germany**

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

8 Kiwa Nederland B.V. certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.  
The examination and test results are recorded in confidential ATEX Assessment Report No. 150800115.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 60079-0 : 2012 + A11 : 2013      EN 60079-7 : 2015 + A1 : 2018**

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

11 This Type Examination Certificate relates only to the design of the specified product and not to specific items of equipment subsequently manufactured.

12 The marking of the product shall include the following:



**II 3 G Ex ec IIC T4 Gc**

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Kiwa Nederland B.V.

Pieter van Breugel  
Certification Officer

Issue date:

5 December 2018

First issue:

16 October 2015

This certificate shall, as far as applicable, be revised before the date of cessation of presumption of conformity of (one of) the included standards above as communicated in the Official Journal of the European Union.

© Integral publication of this certificate in its entirety and without any change is allowed.

## 13 SCHEDULE

### 14 Type Examination Certificate KIWA 15ATEX0035 X

Issue No. 2

#### 15.1 Description of Product

SMART Transmitter Power Supply Model HiC2025 is for the supply of intrinsically safe transmitters located in an explosive atmosphere and can also be used with an active intrinsically safe current source. It transfers the analog input signal to the non-intrinsically safe side as an isolated current signal.

Bi-directional communication is supported for transmitters that use current modulation to transmit data and voltage modulation to receive data.

SMART Current Driver Model HiC2031 repeats a 4 - 20 mA input signal from a non-intrinsically safe source to drive intrinsically safe HART I/P converters, valve actuators, and displays located in an explosive atmosphere.

The modules mount into a HiC Termination Board.

Ambient temperature range -20 °C to +60 °C.

#### 15.2 Electrical Data

##### Model HiC2025

Supply: 19 ... 30 V (via Termination Board),  
rated current maximum 45 mA,  
power maximum 1,1 W.

Output: 4 ... 20 mA or 1 ... 5 V on maximum 300  $\Omega$  (source mode),  
4 ... 20 mA, 15 ... 26 Vdc (sink mode).

##### Model HiC2031

Supply: 19 ... 30 V (via Termination Board),  
rated current maximum 30 mA,  
power maximum 700 mW.

Input: 4 ... 20 mA (max. 30 mA),  
maximum 27 V.

#### 15.3 Instructions

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

### 16 ATEX Assessment Report Number

No. 150800115.



13 **SCHEDULE**

14 **Type Examination Certificate KIWA 15ATEX0035 X**

**Issue No. 2**

17 **Specific Conditions of Use**

- The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with EN 60079-0.
- Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.

18 **Essential Health and Safety Requirements**

All relevant Essential Health and Safety Requirements are covered by the standards listed at section 9.

19 **Drawings and Documents**

As listed in ATEX Assessment Report No. 150800115.

20 **Description of Certificate Changes (for Issue 2 and above)**

Issue 2, Kiwa reference no. 180500348:

- Changed type of protection from "nA" to "ec".

