



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

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Issue 0 (2015-02-13)

Status: **Current** Issue No: 1

Date of Issue: 2022-04-06

Applicant: **Honeywell GmbH**  
FEMA Regelgeräte  
Böblinger Straße 17  
71101 Schönaich  
Germany

Equipment: **Pressure switches Type Ex-\* and \*-513, -563, -574, -575, -576, -577, -326 and -327**

Optional accessory:

Type of Protection: **Increased safety "e", Intrinsic safety "i", flameproof enclosure "d" and protection by enclosure "t"**

Marking: **Type Ex-\***: Ex db eb IIC T6 Gb, Ex ta/tb IIIC T80 °C Da/Db, -20 °C ≤ Ta ≤ +60 °C  
**Type \* -513, -563, -574, -575, -576, -577, -326 and -327:**  
Ex ia IIC T6 Ga/Gb, Ex ia IIIC T80 °C Db, -25 °C ≤ Ta ≤ +60 °C

Approved for issue on behalf of the IECEx  
Certification Body:

**Kai Willamowski**

Position:

**Head of department Certification Body**

Signature:  
(for printed version)

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

**IBExU Institut für Sicherheitstechnik GmbH**  
Fuchsmühlenweg 7  
09599 Freiberg  
Germany



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Manufacturer: **Honeywell GmbH, FEMA Regelgeräte**  
Böblinger Straße 17  
71101 Schönaich  
Germany

Manufacturing locations: **Honeywell GmbH, FEMA Regelgeräte**  
Böblinger Straße 17  
71101 Schönaich  
Germany

**Honeywell Szabalyozastechnikai Kft.**  
Dozsa Gy. U. 147  
Nagykanizsa 8800  
Hungary

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[DE/IBE/ExTR14.0041/00](#)

[DE/IBE/ExTR14.0041/01](#)

[DE/IBE/ExTR14.0068/00](#)

Quality Assessment Reports:

[DE/TUR/QAR13.0015/04](#)

[NL/DEK/QAR20.0001/01](#)



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**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Detailed information for types and technical data are listed in Annex

**SPECIFIC CONDITIONS OF USE: NO**



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

- A 2nd manufacturer address was added.
- The temperature switch versions are no longer manufactured.
- The pressure switches also comply with the current standard series IEC 60079.

## **Annex:**

[Annex\\_IBE14.0077\\_01.pdf](#)



# IECEX Certificate of Conformity - Annex



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**Description of equipment**

The pressure switches type Ex-\* consist of an enclosure in type of protection "increased safety" or "protection by enclosure" in which separately approved flameproof switches and connectors are built in. The devices are designed for use in hazardous areas of zones 1, 2, 21 and 22. The process connection meets the requirements for zone 0.

The pressure switches type \* -513, -563, -574, -575, -576, -577, -326 and -327 are intrinsically safe equipment. Using "ia" circuits, The devices meet the requirements of zone 0 or zone 20 at the process connection, if using "ia" circuits. The devices are mounted in zones 1, 2, 21 and 22.

**Type extent Ex d, Ex e and Ex-t pressure switch**

Ex-DWR..., Ex-DGM... (Pressure Monitors, Pressure Limiters)  
Ex-DCM..., Ex-DNM..., Ex-DNS... Ex-VCM..., Ex-VNM..., Ex-VNS... Ex-DDCM...

**Technical data**

Ambient temperature range: -20 °C to +60 °C  
Degree of protection: IP65

**Electrical Data**

Rated voltage  $U_N \leq 250 \text{ V}$   
Rated current  $I_N \text{ max. } 3 \text{ A AC, } \cos \text{ Phi } \geq 0.9$   
 $\text{max. } 0.1 \text{ A DC}$

**Type extent Ex-i pressure switches**

Type	pressure	ZF	ZF	ZF	ZF	ZF	ZF	ZF	ZF
DWR	...			513	563	574	575	576	577
DGM	...			513	563	574	575	576	577
DCM	...			513	563	574	575	576	577
DNM	...			513	563	574	575	576	577
DNS	...			513	563	574	575	576	577
VCM	...			513	563	574	575	576	577
VNM	...			513	563	574	575	576	577
VNS	...			513	563	574	575	576	577
DDCM	...			513	563	574	575	576	577
DWAM	...			513	563			576	577
FD	...	326	327						



# IECEX Certificate of Conformity - Annex



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## ZF-declaration:

- ...-326 Device with resistor combination (only FD model without locking)
  - ...-327 Device with resistor combination (only FD model, with internal locking)
  - ...-513 Device with gold contact micro switch without resistor combination
  - ...-563\* Device with gold contact micro switch without resistor combination
  - ...-574\* Micro switch with gold contacts and resistor combination
    - Opens with falling pressure, without locking
  - ...-575\* Micro switch with silver contacts and resistor combination
    - Opens the pressure decreases with internal locking
  - ...-576\* Micro switch with gold contacts and resistor combination
    - Opens with increasing pressure without locking
  - ...-577\* Micro switch with silver contacts and resistor combination
    - Opens with increasing pressure, with internal locking
- \* = Switching devices plastic coated

## Technical Data

Ambient temperature range. -25 °C to +60 °C  
Degree of protection: IP65

## Electrical Data for devices without resistor combination (... -513 and -563 ...):

Supply circuit type of protection intrinsic safety Ex ia IIC  
U<sub>i</sub> 24 V DC  
I<sub>i</sub> 100 mA  
effective internal capacitance C<sub>i</sub> 1 nF  
effective internal inductance L<sub>i</sub> 100 µH

## Electrical data for devices with resistance combination (... -326 and -327 ... and ... -574, ... -575, ... -576 and -577 ...):

Supply circuit type of protection intrinsic safety Ex ia IIC  
U<sub>i</sub> 14 V DC  
R<sub>i</sub> 1500 Ohm  
effective internal capacitance C<sub>i</sub> 1 nF  
effective internal inductance L<sub>i</sub> 100 µH