

[1] **EU-TYPE EXAMINATION CERTIFICATE - Translation**



[2] Equipment or protective systems
intended for use in potentially explosive atmospheres, Directive 2014/34/EU

[3] EU-type examination certificate number **IBExU18ATEX1039** | Issue 0

[4] Product: **Datameasurement- and Storing system PWBlogg N7/180/D-Ex1**

[5] Manufacturer: **Paul Wegener GmbH**

[6] Address: **Marienstrasse 24
06493 Ballenstedt
GERMANY**

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

[8] IBExU Institut für Sicherheitstechnik GmbH, Notified Body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 the Directive.

The examination and test results are recorded in the confidential test report IB-18-3-0007.

[9] Compliance with the essential health and safety requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013 EN 60079-11:2012 EN 60079-28:2015
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 product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] This EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

Ex II 2G Ex ib op is IIB T4 Gb
-20 °C ≤ T_a ≤ +60 °C

IBExU Institut für Sicherheitstechnik GmbH
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By order

(Dipl.-Ing. [FH] Henker)



- Seal -

(Notified Body number 0637)

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Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2018-05-25

[13] **Schedule**

[14] **Certificate number IBExU18ATEX1039 | Issue 0**

[15] **Description of product**

The data acquisition system PWBlogg N7/180/D-Ex1 (hereinafter referred to as data logger) enables measuring and logging the physical quantities pressure and temperature in explosion-hazardous areas of the zone 1.

The electrical signals provide up to eight transducers (system sensors) which are connected to the data logger via intrinsically safe RS485 interface.

The data logger electronics are protected by an aluminum die-cast case. Important settings can be made at the data logger by keypad and display. Data transmission to PC is done via infrared interface „IR-Online“ or SD memory card.

The measuring system is supplied by a battery pack including two lithium cells.

The dedicated transducers (system sensors) are:

Pressure transducer: PWB-DS5/40
Temperature transducer: PWB-TS3/6

The device ground and the ground line of the sensor power supply are connected to the housing of the PWBlogg N7/180/D-Ex1.

Technical data

Ambient temperature:	-20 °C to +60 °C
Gas-classification:	IIB
ignition protection type	Intrinsically safety ib
Battery-Package	BP16.5N5-Ex1
Backup-Battery	Type 2032 Lithium Cell, 3 V
Housing:	Die-cast aluminum (180 x 140 x 71 mm³)
LCD-Display	128 x 64 Pixel
Infrared-interface	9600 Bd
Number of sensor input	Up to 8
Multimedia SD-Card	Up to 4 GB

Intrinsically safety ratings

U _o	7.8 V
I _o	394 mA
P _o	0.768 W
C _i	15.25 µF

[16] **Test report**

The test results are recorded in the confidential test report IB-18-3-0007 of 2018-05-25.

The test documents are part of the test report and they are listed there.

Summary of the test results

The data measurement and storage system PWBlogg N7/180/D-Ex1 and the associated PWB-DS5/40, PWB-TS3/6 sensors and the IR-Online infrared interface meet the requirements of explosion protection for electrical equipment of device group II in device category 2G in ignition protection type "ib" intrinsically safe equipment of explosion groups IIB of temperature class T4.

- [17] **Specific conditions of use**
None

- [18] **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report: None.

- [19] **Drawings and Documents**

The documents are listed in the test report.

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