



(1) **Supplementary EU - Type Examination Certificate No.1**

(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 19 ATEX 0040X

(4) Product: **Battery Pressure Transmitter BAP2
Battery Temperature Transmitter BAT2**

(5) Manufacturer: **BD Sensors s.r.o.**

(6) Address: **Osloboditeľov 60/A, 040 17 Košice, Slovak Republic**

(7) This supplementary certificate extends EU - Type Examination Certificate No. FTZÚ 19 ATEX 0040X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, 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.

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

ČSN EN IEC 60079-0:2018, ČSN EN 60079-11:2012

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

(11) The marking of the product shall include the following:

 **II 1G Ex ia IIB T3/T4 Ga**

(12) This certificate is valid till: **30.11.2029**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



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**Physical-Technical Testing Institute
Ostrava - Radvanice**

(13) **Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 1
to FTZÚ 19 ATEX 0040X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Extension of certificate validity.

The subject of this supplementary certificate is extension of certificate validity. The design and technical parameters of the certified product remain unchanged.

Description of product and technical parameters (recapitulation):

The products Battery Pressure Transmitter type BAP2 / Temperature Transmitter BAT2 are designed for pressure / temperature measuring in explosive atmosphere. The products differ only in used sensors and in software. Electronics placed on some PCBs is placed into aluminum or steel enclosure. In dependency of used batteries product is classified into temperature class. The product can be equipped with USB or RS-485 interface, which is not determined for work in explosive atmospheres and Bluetooth interface for communication in explosive atmospheres.

Classification of the product into temperature class and ambient temperature range.

Type of product	Battery	Temperature class	Ambient temperature
N1	Energizer Power Seal AAA	T4	-20°C to +55°C
	Duracell Long Leasing Power AAA	T4	
N2	Energizer E91 AA	T3	-10°C to +50°C
	Varta Longlife Power AA	T3	
N3	Battery pack BP-1	T4	0°C to +50°C

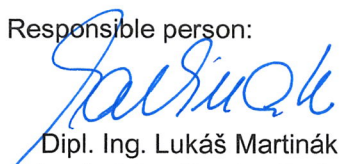
Intrinsically safe parameters:

Power supply by BP-1: $U_i = 5\text{ V}$

Bluetooth: Maximal radiated power: 10 mW (10 dBm)

(16) Report Number: 19/0040/1

Responsible person:


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**Physical-Technical Testing Institute
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(13)

Schedule

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(17) Specific Conditions of Use:

1. When using a product with an aluminium enclosure in Zone 0, the device shall be protected against mechanical sparks caused by friction or impact
2. When using the product, the housing must be connected to ground

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this supplementary certificate.

(19) Drawings and Documents:

Number	Version	Pages	Date	Description
--	1.1	12	07/2019	ATEX Analysis BAP2 / BAT2
--	2.2	10	08/2019	Technical condition and Installation of BAT2
--	2.2	10	08/2019	Technical condition and Installation of BAP2
--	-	1	07/2019	Composition of PCBs
--	1.0	2	07/2019	Workflow no. 11
--	--	1	08/2019	Labels
MB54V3	--	14	07/2019	MB54V3 – Power supply
MB12V10	--	8	07/2019	MB12V10 - Display
MB12V8	--	8	07/2019	MB12V8 – Display
MB56V1	--	6	07/2019	MB56V1 – Battery pack BP-1
MB46V1	--	6	07/2019	MB46V1 –USB interface
MB15V4	--	6	07/2019	MB15V4 –RS-485 interface
--	--	1	07/2019	Temperature sensor mounting
--	--	1	07/2019	Pressure sensor mounting

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