



(1) **EU-TYPE EXAMINATION CERTIFICATE**

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

(3) EU-Type Examination Certificate Number:

SIQ 17 ATEX 009 X

Issue: 0



(4) Product: BLE gateway, types BLE & 3G Gateway ATEX and BLE Gateway ATEX

(5) Manufacturer: Microtronics Engineering GmbH

(6) Address: Hauptstrasse 7, 3244 Ruprechtshofen, Austria

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

(8) SIQ Ljubljana, Notified body number 1304 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 TEx009.2/17.

(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

(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) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance with the Directive 2014/34/EU. 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:

 **II 2 G Ex ib IIB T3 Gb**

Certification body

Ljubljana, 6 September 2017

Igor Likar



(13)

SCHEDULE

(14) **EU-Type Examination Certificate Number SIQ 17 ATEX 009 X, Issue: 0**

(15) Description of Product

BLE gateway, types BLE & 3G Gateway ATEX and BLE Gateway ATEX, is a communication unit for recording of the measured gas concentration from BLE sensor unit via Bluetooth connection and sending received data to central server via GSM network or to other device via Bluetooth connection. It is designed in type of protection intrinsic safety 'ib'. Power is assured by internal batteries which are not intended to be replaced by user. Enclosure is made from plastic material with plastic protective armor. Unit has an external connector for connection of the antenna. At the bottom of the BLE gateway is a place for installation of the BLE sensor unit, which is attached to the BLE gateway by magnet. BLE sensor unit is not covered by this Certificate.

Type key:

Type:	Description:
BLE & 3G Gateway ATEX	BLE gateway with BLE and GSM 2G/3G module
BLE Gateway ATEX	BLE gateway with BLE module only

Specifications:

Ambient temperature range:	From -20°C to +50°C
Power supply:	Two batteries Tadiran type SL-2880 and hybrid layer capacitor Tadiran type HLC-1530
Material of the enclosure:	Lexan 161R, GTX973, silicone gasket S35WX04 SIL35 SHORE A WHITE and protective armor TC4GPN
Data transmission:	Bluetooth Low Energy: Range: 20 m (depending on the environmental conditions) Transmission rate: 120 data records/sec. 2G/3G modem (Europe): 2G GPRS 900MHz / 1800MHz UMTS B1, B8

(16) Test Report

TEx009.2/17 dated 6 September 2017.

(17) Specific Conditions of Use

- Ambient temperature range $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$.
- Potential electrostatic charging hazard – Clean the device with moist or electrostatically dissipative cloth.
- The device shall be protected against UV radiation.
- Only certified BLE sensor unit shall be used.
- The measuring function for explosion protection is not a subject of this Certificate.



(18) Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements has been assured by compliance with the requirements of the standards listed under item (9).

(19) Drawings and Documents

Description	Number	Issue	Date
BLE gateway 01v005, HW-Description, Microtronics Engineering GmbH	/	Doc. Rev.: 5	27. 7. 2017
Calculation BLE_gateway, Ver: 01v004, File name: BLE_gateway_dimension.xls, Microtronics Engineering GmbH	/	Doc. Rev.: A	19. 1. 2017
Marking labels, BLE & 3G Gateway ATEX and BLE Gateway ATEX, Microtronics Engineering GmbH	/	/	/
BLE gateway, 7937_01A_BLE_gateway_01v004_3G_EU_TMA, Version: 01v004, Variante: 01, Microtronics Engineering GmbH	/	Revision: A	1. 3. 2017
BLE_connector, 8054_01A_BLE_connector_01v003, Version: 01v003, Variante: 01, Microtronics Engineering GmbH	/	Revision: A	27. 7. 2017
7937_01A_BLE_gateway_01v004_3G_EU_TMA, View: TOP, Microtronics Engineering GmbH	/	/	20. 2. 2017
7937_01A_BLE_gateway_01v004_3G_EU_TMA, View: BOTTOM, Microtronics Engineering GmbH	/	/	20. 2. 2017
Gerber files, file name: "7936_Project Outputs for BLE_gateway_01v004", Microtronics Engineering GmbH	/	/	/
Component list, BOM-BLE_gateway (7937_01A_BLE_gateway_01v004_3G_EU_TMA), Microtronics Engineering GmbH	ID: 007937	/	20. 2. 2017
PCB manufacturing details, BLE_gateway_01v004, Microtronics Engineering GmbH	/	Doc. Rev.: 1	/
8054_01A_BLE_connector_01v003, View: TOP, Microtronics Engineering GmbH	/	/	27. 7. 2017
8054_01A_BLE_connector_01v003, View: BOTTOM, Microtronics Engineering GmbH	/	/	27. 7. 2017
Gerber files, file name:"8053_Project Outputs for BLE_connector_01v003", Microtronics Engineering GmbH	/	/	/
Encapsulation details, BLE connector, Version 01v003, Microtronics Engineering GmbH	008054	Revision: 00	31. 8. 2017



Description	Number	Issue	Date
Component list, BOM-BLE_connector (8054_01A_BLE_connector_01v003), Microtronics Engineering GmbH	ID: 8054	/	27. 7. 2017
PCB manufacturing details, BLE_connector_01v002, Microtronics Engineering GmbH	/	Doc. Rev.: 1	/
Sensoraufnahme mit Dichtung 01v001, Microtronics Engineering GmbH	Bildtafel 008037	/	/
Base Device Boden Sensoraufnahme, Part number: 008026, Version: 01v001, Microtronics Engineering GmbH	/	Revision: 02	26. 11. 2015
Deckel transparent bedruckt, Drawing and part number: 006322, Version: 01v000, Microtronics Engineering GmbH	/	Revision: 00	15. 2. 2016
myDatasensMINI Elektronikträger, Part number: 005773, Version: 02V000, Microtronics Engineering GmbH	/	Revision: 00	9. 10. 2015
myDatasensMINI Schutzpanzer, Part number: 005341, Version: 01v001, Microtronics Engineering GmbH	/	Revision: 00	15. 9. 2015
User manual, myDatasensH2S1000 BLE & 3G, Microtronics Engineering GmbH	300771	Revision: 03	4. 4. 2017
User manual, myDatasensH2S1000 BLE, Microtronics Engineering GmbH	300772	Revision: 03	4. 4. 2017

(20) Consolidated Certificates

None.