

Certificate of Conformity EX EQUIPMENT

| Certificate No.: AN | IZEx 13.3010X | Current Issue: 2 | Date of Issue: | 2022-03-22 |
|---|--|---|---|------------|
| Applicant: | Migatron Corporation 935 Dieckman Street Woodstock, IL 60098 USA | 1 | | |
| Equipment: | Intrinsically Safe Ultras Model: RPS-409A-abcd- | sonic Sensor IS2-efgh | | |
| Type of Explosion Protection: | Intrinsic Safety "ia" | | | |
| Explosion Protection Marking: | Ex ia I Ma Ex ia IIC T4 Ga Ex ia IIIC T101ºC Da -40°C ≤ Ta ≤ +60ºC | | | |
| TI Join ANZEx S Signed for and on behau | his certificate is granted su It Accreditation System of J System Rules 2020 & ANZ | bject to the requirements Australia and New Zealar Ex Certified Equipment S | as set out in nd Publications Scheme Rules 2021 | |
| | Name & Position | Ujen Singh - Quality & | Certification Manager | |
| This certificate is not transferable and remains the property of the issuing body. The status of this certificate can be confirmed through the database located at <u>www.anzex.com.au</u> | | | | |
| <u>Certificate iss</u> | ^{ued by:} Tes 919 Londonderry Road, | tSafe Australia Londonderry NSW 27 | 53 Australia | |
| JAS-ANZ | | | | |



Page 1 of 6



EPF019_24 - date issued: 17/02/2021



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|---|--|--|------------------------------|------------|
| | | | | |
| Manufacturer: | Migatron Corporation 935 Dieckman Street Woodstock, IL 60098 USA | | | |
| Additional Manufacturing Location(s): | None | | | |
| STANDARDS: | | | | |
| The equipment and an documents, was found | ny acceptable variations to it specifi I to comply with the following stand | ied in the schedule of this ce lards: | ertificate and the identifie | d |
| IEC 60079-0:2017 Ed | Explosive atmospheres Part | 0: Equipment—General require | ments | |
| IEC 60079-11:2011 E | d 6 Explosive atmospheres – Par | t 11: Equipment protection by in | trinsic safety "i" | |
| This Certificate does n included in the Standa | not indicate compliance with safety irds listed above. | and performance requireme | ents other than those exp | ressly |
| IAS-AM7 | | | | 6 |





Certificate of Conformity

| | Certificate No.: ANZI | Ex 13.3010X | Currei | nt Issue: 2 | Date of Issue: | 2022-03-22 | | |
|-------------------------------|--|-------------------------------------|------------------|--------------------|---------------------|-------------|--|--|
| | Schedule | | | | | | | |
| Ec | uipment Description: | | | | | | | |
| Me be | Model RPS-409A-abcd-IS2-efgh is an intrinsically safe, barrier-powered analog ultrasonic sensor, which can be used for distance measurement and/or object detection. | | | | | | | |
| No | menclature for intrinsical | y safe probe: | | | | | | |
| | RPS-409A | - abc | d - | IS2 | - efgh | | | |
| | I. | II | III | Ι | IV | | | |
| | I - Basic Model | | | | | | | |
| | II - Operational Ra be any numbe | ange: The maxim r from 1 to 999. | ium range of the | sensor in inche | es is designated by | abc and can | | |
| | III - Enclosure: Blank, enclosure and jam nut material Polyphenylene Sulfide (PPS). P, enclosure and jam nut material Polyvinyl Chloride (PVC). | | | | | | | |
| | IV - Additional Feature Suffixes: Can be any combination of alphanumeric characteristics (or blanks) that do not relate to the safety of the product (for marketing purposes only). | | | | | | | |
| Electrical Ratings/Parameters | | | | | | | | |
| Th | e following entity paramet | ers shall be take | n into account d | uring installatior |): | | | |
| | Terminal nos. | Ui | li | Pi | Ci | Li | | |
| | 1, 3 (Power) | 30 V | 100 mA | 0.75 W | negligible | negligible | | |

Specific Conditions of Use:

2, 3 (Analog Output)

4, 3 (Sync/Tx)

1. The cable assembly used to connect to the sensor shall have an IP rating of IP67 or greater.

16 mA

16 mA

16 V

16 V

2. Dielectric strength of enclosure is not sufficient to insulate the RPS-409A-abcd-IS2-efgh from other equipment. The RPS-409A-abcd-IS2-efgh may be mounted onto a metal part if the metal part is earth grounded in accordance with local codes, as applicable, or it may be mounted on an insulated part. In either case, the enclosure must be segregated or insulated from live parts.

0.064 W

0.064 W

negligible

negligible

3. RPS-409A-IS2 sensors with Polyvinyl Chloride (PVC) enclosure do not have static dissipative properties. WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD, WIPE WITH A DAMP CLOTH.



Page 3 of 6



negligible

negligible



Certificate of Conformity EX EQUIPMENT

| | | Ex E | QUIPMENT | | | |
|---|--|--------------------|---------------------------|-------------|----------|------------|
| Certificate No.: | ANZEX | 13.3010X | Current Issue: 2 | Date of Iss | sue: | 2022-03-22 |
| | Register of Issues and Variations includes the current issue | | | | | |
| Issue 0 dated 2013- Test & Assessment F TR No. & Issuing C QAR No. & Issuing File Reference: Manufacturer's Docu | Issue 0 dated 2013-03-13 Test & Assessment Reports relevant for this issue: TR No. & Issuing CBs: US/UL/ExTR12.0001/00 UL LLC QAR No. & Issuing CB: US/UL/QAR11.0011/00 UL LLC File Reference: 2012/021291 Manufacturer's Documents/Drawings associated with this issue: | | | | | |
| Document/Drawing Number | Pages / Sheets | Do | cument/Drawing Title | | Revision | Date |
| Ex01121211 | 1 | RPS-409A-IS2 Prot | ective Board Schematic | | 3 | 2012-10-10 |
| Ex01121213 | 2 | RPS-409A-IS2 Prot | ective Board Bill Of Mate | rials | 3 | 2012-10-13 |
| Ex04291115 | 1 | RPS-409A-IS2 Prot | ective Board Gerbers | | 3 | 2012-10-01 |
| Ex01131211 | 1 | RPS-409A-IS2 Mair | n Board Schematic | | 3 | 2012-09-27 |
| Ex01131214 | 3 | RPS-409A-IS2 Mair | n Board Bill Of Materials | | 3 | 2012-10-19 |
| Ex04281112 | 1 | RPS-409A-IS2 Mair | n Board Gerbers | | 2 | 2012-08-08 |
| Ex01171208 | 1 | RPS-409A-IS2 Fina | I Assembly Bill Of Mater | als | 2 | 2012-10-18 |
| Ex01171209 | 1 | PPS-70S Transduce | er Assembly Bill Of Mate | rials | 2 | 2012-10-18 |
| Ex01171210 | 1 | PPS-135S Transdu | cer Assembly Bill Of Mat | erials | 2 | 2012-10-18 |
| Ex01171211 | 1 | PPS-160S Transdu | cer Assembly Bill Of Mat | erials | 2 | 2012-10-18 |
| Ex03191208 | 1 | Transducer Assemb | bly Drawing | | 2 | 2012-10-18 |
| Ex01311216 | 1 | RPS-409A-IS2 Asse | embly Drawing | | 2 | 2012-10-19 |
| Ex01101214 | 1 | Formex GK-40 Insu | lator | | 3 | 2012-10-04 |
| Ex02281313 | 4 | RPS-409A-IS2 Use | r Manual | | 1 | 2013-03-04 |
| Ex05021114 | 2 | RPS-409A-IS2 Con | trol Drawing | | 2 | 2012-10-25 |
| Ex02281310 | 1 | RPS-409A-IS2 ANZ | Ex Marking Label | | 1 | 2013-02-28 |
| Ex04281111 | 1 | RPS-409A-IS2 Enc | losure Drawing | | 3 | 2012-10-10 |
| Ex01191216 | 1 | Transformer Drawin | ig (Toko 126ANS-T1098 | Z) | 2 | 2012-06-29 |
| Page 4 of 6 | | | | | | |



This certificate and schedule may only be reproduced in full

Safe

ALIA

Test



Certificate of Conformity

Certificate No.: ANZEx 13.3010X Current Issue: 2 Date of Issue: 2022-03-22

Issue 1 dated 2019-05-14

Variations Permitted by this Issue

- Minor changes to schedule drawings.
- Remove standard IEC 60079-26
- Move the electrical parameters from conditions of certification to electrical parameters section.

Test & Assessment Reports relevant for this issue:

| TR No. & Issuing CBs: QAR No. & Issuing CB: | US/UL/ExTR12.0001/01 UL LLC US/UL/QAR11.0011/05 UL LLC |
|--|---|
| File Reference: | 2018/020116 |

Manufacturer's Documents/Drawings associated with this issue:

| Document/Drawing Number | Pages / Sheets | Document/Drawing Title | Revision | Date |
|----------------------------|-------------------|---|----------|------------|
| Ex01131211 | 1 | RPS-409A-IS2 Main Board Schematic | 4 | 2018-07-02 |
| Ex01131214 | 3 | RPS-409A-IS2 Main Board Bill of Materials | 4 | 2018-07-02 |
| Ex01101214 | 1 | Formex GK-40 Insulator | 4 | 2018-07-24 |

Issue 2 (current issue)

Variations Permitted by this Issue

- Device has been evaluated and updated to IEC 60079-0, 7th edition.
- Add new encapsulation, board layout, alternate PVC enclosure and components to the documentation.

Standards relevant for this issue:

| EC 60079-0:2017 Ed 7 | Explosive atmospheres P | art 0: Equipment—G | eneral requirements |
|----------------------|-------------------------|--------------------|---------------------|
|----------------------|-------------------------|--------------------|---------------------|

IEC 60079-11:2011 Ed 6 Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i"

Test & Assessment Reports relevant for this issue:

| TR No. & Issuing CBs: | US/UL/ExTR12.0001/02 UL LLC |
|-----------------------|-----------------------------|
| QAR No. & Issuing CB: | US/UL/QAR11.0011/06 UL LLC |
| File Reference: | 2021/012882 |



Page 5 of 6





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|---|-------------------|---|-------------------------|---------------|------------|------------|
| Manufacturer's Documents/Drawings associated with this issue: | | | | | | |
| Document/Drawing Number | Pages / Sheets | Do | cument/Drawing Title | | Revision | Date |
| Ex2021020800 | 1 | RPS-409A-IS2 Prot | ective Board Schemat | ic (R9 Board) | 1 | 2021-02-17 |
| Ex2021020801 | 1 | RPS-409A-IS2 Prot (R9 Board) | ective Board Bill of Ma | iterials | 1 | 2021-05-04 |
| Ex2021020802 | 1 | RPS-409A-IS2 Prot (R9 Board) | ective Board Trace La | youts | 1 | 2021-02-22 |
| Ex01131211 | 1 | RPS-409A-IS2 Mair | n Board Schematic | | 5 | 2021-02-05 |
| Ex01131214 | 3 | RPS-409A-IS2 Main Board Bill of Materials | | 5 | 2021-03-05 | |
| Ex01171208 | 2 | RPS-409A-IS2 Fina | I Assembly Bill of Mat | erials | 3 | 2021-07-21 |
| Ex2021022300 | 1 | RPS-409A-IS2 Ass | embly Drawing (R9 Bo | ard) | 1 | 2021-04-30 |
| Ex02281313 | 4 | RPS-409A-IS2 Use | r Manual | | 2 | 2022-03-10 |
| Ex05021114 | 2 | RPS-409A-IS2 Con | trol Drawing | | 3 | 2021-07-22 |
| Ex02281310 | 1 | RPS-409A-IS2 ANZ | Ex Marking Label | | 2 | 2021-08-19 |
| Ex04281111 | 1 | RPS-409A-IS2 Enc | losure Drawing | | 4 | 2021-07-20 |
| Ex2021020101 | 1 | PAR-70S Transduc | er Assembly Bill of Ma | terials | 1 | 2021-03-02 |
| Ex2021020102 | 1 | PAR-135S Transdu | cer Assembly Bill of M | aterials | 1 | 2021-03-02 |
| Ex2021020103 | 1 | PAR-160S Transdu | cer Assembly Bill of M | aterials | 1 | 2021-03-02 |
| Ex2021020100 | 1 | Transducer Assemb | bly Drawing, PAR | | 1 | 2021-02-23 |





Page 6 of 6