

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 UK-Type Examination Certificate Number: **BAS22UKEX0052**
4 Product: **Minox-i**
5 Manufacturer: **Ntron Limited**
6 Address: **Mullaghboy Industrial Estate, Navan, County Meath, Ireland**

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

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR22.0057/00**

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

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

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 UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations 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 1GD Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +55°C)
Ex ia IIIC T₂₀₀135°C Da (-20°C ≤ Ta ≤ +55°C)**

SGS Baseefa Customer Reference No. **2144**

Project File No. **21/0675**

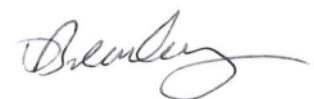
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R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

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Schedule

14

Certificate Number BAS22UKEX0052

15 Description of Product

The Minox-i is a 4-20mA loop powered sensor designed to measure oxygen concentration.

The Minox-i comprises of a replaceable oxygen sensor mounted in a stainless-steel sensor housing with several printed circuit boards mounted in a stainless-steel PCB chamber. The 4-pin connector mounted in the PCB chamber wall is for the user connections.

The 4-pin connector provides the electrical connections for the 4-20mA interface.

$U_i = 28V$

$I_i = 93mA$

$P_i = 0.65W$

$C_i = 12nF$

$L_i = 705\mu H$

16 Report Number

GB/BAS/ExTR22.0057/00

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 report:

Clause	Subject
13	LVD type requirements
14	Overloading of equipment (protection relays, etc.)
21 (1)	External effects
21 (2)	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
E553	1 of 1	3	11-04-2022	MINOX-I SCHEMATIC
E554	1 of 1	2	11-04-2022	MINOX-I PCB LAYERS
E555	1 of 1	3	11-04-2022	MINOX-I ELECTRONIC COMPONENTS BILL OF MATERIALS
E556	1 of 1	6	11-04-2022	MINOX-I MARKING PLATE DETAILS

For all other drawings please see Baseefa19ATEX0020

These drawings are common to Baseefa19ATEX0020 and IECEx BAS 19.0013