

## EU - TYPE EXAMINATION CERTIFICATE

### Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- 1 EU - Type Examination Certificate Number: **SGS20ATEX0096X – Issue 2**
- 2 Product: **FCS-9332-xxx Fieldbus Temperature Transmitter**
- 3 Manufacturer: **Eaton Electric Limited**
- 4 Address: **Great Marlings, Butterfield, Luton, Bedfordshire, LU2 8DL, United Kingdom**
- 5 This re-issued certificate extends EU Type Examination Certificate No. SGS20ATEX0096X to apply to product 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.
- 6 SGS Fimko Oy, Notified Body number 0598, 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.
- 7 The examination and test results are recorded in confidential Report No. **See Certificate History**
- 8 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.
- 9 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.
- 10 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.
- 11 The marking of the product shall include the following:  
**⊕ II 1 G Ex ia IIC T4 Ga (-40°C ≤ T<sub>a</sub> ≤ +50°C)**

SGS Fimko Oy Customer Reference No. **0703**

Project File No. **23/0288**

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Mikko Välimäki  
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## Schedule

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### Certificate Number SGS20ATEX0096X – Issue 2

#### 15 Description of Product

The FCS-9332-xxx Fieldbus Temperature Transmitter is designed to be mounted in a zone 0 hazardous area and enables up to sixteen temperature inputs from sensors to be converted to a Foundation Fieldbus or FISCO output. The equipment also provides additional terminal connection facilities for the termination of other IS certified equipment.

The equipment comprises up to 2 off Rosemount Model 848T Multi Sensor Fieldbus Temperature Transmitters (either Fieldbus or FISCO variants) currently afforded Certificate No. Baseefa09ATEX0093X, each transmitter providing connection of up to 8 sensors, and up to 16 Ex eb Terminals of Type WDU4 currently afforded Certificate No. DEMKO 14ATEX1338U. The above are all housed in a sheet steel IP66 rated enclosure (508mm x 260mm x 152mm) currently afforded certificate No. Baseefa15ATEX0099U and marked  $\text{Ex}$  II 2G Ex eb IIC Gb. One face of the external wall permits the following entries, An IP66 Ex 'eb' certified breather and up to 18 Ex 'eb' certified cable glands and / or stopping plugs.

The number and location of the additional terminal connection facilities is dependent on the installation but maintain the required segregation from Model 848T connections in accordance with the segregation requirements of EN 60079-11.

The 'xxx' at the end of the model number, (if marked) denotes the configuration of the equipment. The differences between the models and configurations do not affect the certification.

#### Input / Output Parameters:

##### Model 848T I/O Parameters

##### I.S. Installation Power / Loop Terminals

$$\begin{array}{ll} U_i = 30V & C_i = 2.1nF \\ I_i = 300mA & L_i = 0 \\ P_i = 1.3W \end{array}$$

The above parameters must be derived from a linear supply with a resistance limited output.

##### FISCO Installation Power / Loop Terminals

$$\begin{array}{ll} U_i = 17.5V & C_i = 2.1nF \\ I_i = 380mA & L_i = 0 \\ P_i = 5.32W \end{array}$$

##### Sensor Input Terminals Channels 1 to 8

$$\begin{array}{ll} U_o = 12.5V & C_o = 1.2\mu F \\ I_o = 4.8mA & L_o = 1H \\ P_o = 15mW \end{array}$$

##### Additional IS Terminal Parameters

$$U_i = 60V$$

#### 16 Report Number

See Certificate History.

## 17 Specific Conditions of Use

1. The Model 848T equipment is not capable of withstanding the 500V isolation test required by EN 60079-11:2012 clause 6.3.13. This must be taken in account when installing the equipment.
2. When a hinged lid is fitted, the enclosure shall only be mounted in a vertical orientation on a flat surface, and care is required in the installation process and when opening the hinged lid to ensure the enclosure does not distort.  
  
When a fully bolted lid is fitted the enclosure may be mounted in any orientation, but it shall be on a flat surface and care is required in the installation process to ensure the enclosure does not distort.
3. Unused terminals inside the equipment shall be tightened.

## 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
1.2.7	Protection against other hazards (LVD type requirements, etc.)
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

## 19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
CI-FCS-9332-4	1 of 1	2	7/23	FCS-9332 – Cert Label – ATEX Version

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
CI-FCS-9332-3	1 of 1	2	1.2.21	FCS-9332 – General Arrangement – ATEX Version

## 20 Certificate History

Certificate No.	Date	Comments
SGS20ATEX0096X	28 July 2020	The release of the prime certificate. The associated test and assessment against the requirements of EN IEC 60079-0:2018 and EN 60079-11:2012 is documented in Certification Report No. 20(C)0361.
SGS20ATEX0096X Issue 1	11 March 2021	This issue of the certificate permits an increase in the number of Type WDU4 terminals that can be fitted in the equipment for the termination of other IS certified equipment to up to 16. The increase in the number of terminals does not affect the previous assessment. The associated test and assessment is documented in Certification Report No. GB/BAS/ExTR21.0030/00 (held with IECEx Certificate No. IECEx BAS 21.0038X Iss. 1), Project File 21/0098.
SGS20ATEX0096X Issue 2	9 September 2024	To permit label changes relating to alternative manufacturing sites. See GB/SGS/ExTR24.0116/00 for project 23/0288.
For drawings applicable to each issue, see original of that issue.		