

1. **EC-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in
Potentially explosive atmospheres
Directive 94/9/EC**
3. Reference: **VTT 13 ATEX 043X Issue 0**
4. Equipment: **Temperature limiter**
Certified types: **MPCnet TL Ex 17-8851-****/******
5. Applicant: **BARTEC GmbH**
6. Address: **Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany**
7. This equipment or protective system and any acceptable variations thereto are specified in the schedule and possible supplement(s) to this Certificate and the documents therein referred to.
8. VTT Expert Services Ltd, notified body number 0537, in accordance with Article 9 of the Council Directive 94/9/EC of March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. VTT-S-08246-13.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 (2009)
EN 60079- 30-1 (2007)
EN 50495 (2010)
EN ISO 13849-1 (2006)
EN ISO 13849-2 (2003)



10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
11. This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
12. The marking of the equipment or protective system shall include the following:

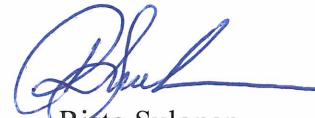


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Espoo, 25.11.2013
VTT Expert Services Ltd



Martti Siirola
Senior expert



Risto Sulonen
Product Manager

13. **Schedule**

14. **EC-TYPE EXAMINATION CERTIFICATE VTT 13 ATEX 043X Issue 0**

15. Description of Equipment

Temperature limiter, type MPCnet TL Ex 17-8851-****/****, consist of one temperature measuring relay with possibility to connect to temperature sensors (Pt-100). The temperature sensors are not included in this certificate. The measuring relay shall be connected to the control main contactor of the supply or other ATEX certified control equipment (e.g. frequency converter's ATEX-certified safety device). The temperature limiting circuit which includes the temperature limiter shall be used parallel with another temperature controlling circuit.

Temperature limiter fulfils the requirements for SIL 1 classification.

Documents:

Description; MPCnet safety temperature limiter TL Ex, Type 17-8851-0030, document 11-8851-6B0001_V0 (date 02.07.2013)

User's manual; MPCnet TL Ex Temperature Limiter, document No. 11-8851-6D0001_V0/20130702.

16. Report No. VTT-S-08246-13.

17. Special conditions for safe use

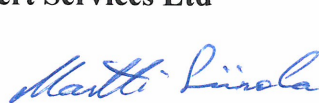
1. The installation of used temperature sensors shall fulfil the requirements of EN 60079-14 for the relevant type of protection and hazardous area classification.
2. The main contactors and auxiliary relays which temperature limiter controls shall be over-dimensioned ($2 \times I_n$).

18. Essential Health and Safety Requirements

Assessment using standards referred in point 9 have confirmed compliance with the Directive 94/9/EC, Annex II and in particular point 1.5. The device themselves are to be installed outside potentially explosive atmospheres (article 1, section 2 of the Directive).

Espoo, 25.11.2013

VTT Expert Services Ltd



Martti Siirola
Senior Expert



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