

[1] **EU-Type-Examination Certificate**

[2] Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere – **Directive 2014/34/EU**



[3] **EU-Type-Examination Certificate**

PTZ 16 ATEX 0025X

Rev. 0

[4] **Applicant:** Erich Ott GmbH & Co. KG

[5] **Address:** Rüdigerstrasse 15
D-65189 Wiesbaden
Germany

[6] **Equipment:** Temperature sensor Type Ex TF...100KS

[7] This Equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents referred to.


[8] Primara Test- und Zertifizier GmbH, Notified Body No. 2572 in accordance with the Council Directive, dated 26th February 2014 (2014/34/EG), certifies that this equipment has been found to comply with the Essential Health and Safety Requirements related to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the directive. The examination and test results are recorded in the confidential report ZELM Ex 12213281092.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with to following standards:
EN 60079-0:2012+A11:2013 **EN 60079-7:2015** **EN 60079-18:2015**

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

[11] This EU-Type-Examination Certificate relates only to the design, examination and tests of specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

[12] The marking of the equipment shall include the following:

 II 2 G Ex eb mb IIC T1-T6

Kaufbeuren, 2017-04-06

Andreas Aufmuth
Certification body

Horst Haug
ATEX department

EU-type-examination Certificates without signation and stamp shall not be valid.
EU-type-examination Certificates may only be reproduced in entirety and without change.
Extracts or alternations are subject to the Primara Test- und Zertifizier- GmbH.
This document is internally administrated under no: 16PP349.

[13] Annex

[14] EU-Type-Examination Certificate PTZ 16 ATEX 0025X

[15] Description of the equipment

The temperature sensor is used to control heaters. It is supplied by an associated short circuit protected control unit. Pt-100 measuring resistors are used as sensors.

[16] Technical data:

Measuring ranges: -40°C to +400°C

Nom. voltage: 2,3 V

Nom. current: 1 - 10 mA

Ambient temperature range: -40°C to +180°C

Ingress protection: IP 65

The relationship between the maximum ambient temperature or sensor temperature and the temperature class can be found in the following table:

	Temperature class					
	T6	T5	T4	T3	T2	T1
Max. allowed ambient temperature	+70°C	+85°C	+120°C	+180°C	+180°C	+180°C
Max. allowed sensor temperature	+70°C	+85°C	+120°C	+180°C	+280°C	+400°C

[17] Test report no.:

ZELM Ex 12213281092

[18] Special conditions:

1. The thermometer sensor cable, including the probe, has to be mechanically protected.
2. The minimum bending radius for the sensor cable is minimum 40 mm.
3. Only to be supplied by approved power supplies for passive resistor sensors approved to the corresponding standard. The electrical operating values must not be exceeded.
4. A fuse suitable for a short-circuit current of 1500A needs to be provided before each temperature sensor directly or within the supply unit.
5. The maximum voltage between the temperature measuring connections and the earthing or potential equalization connection must not exceed 90V.

[19] Essential Health and Safety Requirements:

Covered by the standards.