

(1)

**EU-Type Examination Certificate**(2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres****Directive 2014/34/EU**(3) EU – Type Examination Certificate Number: **IEP 21 ATEX 0935X**(4) Product: **ST Series Temperature Transmitter**(5) Firm Name: **Shenzhen Maxonic Automation Control Co., Ltd. Senex Branch**(6) Firm Address: **Room 102, Building 2, No. 600 Guangshon 2<sup>nd</sup> Rd, Tianhe District, Guangzhou, Guangdong, 510520, P.R. ,CHINA**

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

(8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of 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. The examination and test results are recorded in confidential Report Nr: IEP.Rp.Ex.10-1963 date 08.06.2021.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with;

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

(10) If the sign “ X “ is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

**II 1G Ex ia IIC T6 Ga****Responsible Person :**Nurettin Terzioğlu  
Head of Certification Body**Date of Issue : 17.06.2021**





# IEP ENERGY PETROLEUM INSTITUTE

(13) Schedule

(14) Certificate Nr: **IEP 21 ATEX 0935X**

(15) Description of Equipment;

## 15.1 Description;

ST series intrinsically safe explosion-proof temperature transmitter integrates thermocouple or thermal resistance with temperature transmitter, which can directly measure various industrial processes. The pressure transmitter's outer body and measurement probe is made of stainless steel.

ST series temperature transmitter works with a certified suitable barrier power supply. Output current values are 4-20mA and max voltage 24V DC. The device is used in zone1 and the probe is used in zone 0.

(IEP 21 ATEX 0935X) X means: Temperature transmitter must be used as an intrinsically safe circuit Zener barrier. The Zener barrier specifications must be suitable according to the IIC gas group and transmitter energy sheets. Installation and periodic maintenance should be done by an authorized person or company according to the user manual and the standard. If temperature bigger than -20 °C ~ + 200 °C, for other measurement range should be made special isolation connection.

## 15.2 Electrical data;

Barrier Power Supply: ia type of protection intrinsic safety Ex, only for connection to a certified intrinsically safe power supply, with following maximum values:

$U_o = 28 \text{ V DC}$ ,  $I_o = 93 \text{ mA}$ ,  $P_o = 0,65 \text{ W}$

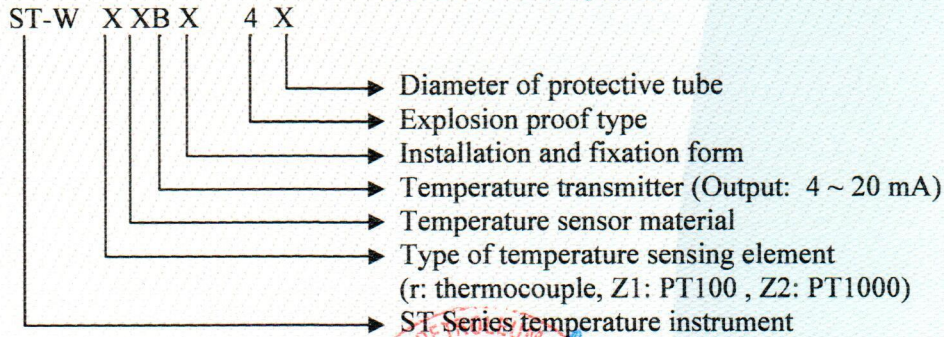
$U_i = 28 \text{ V DC}$ ,  $I_i = 93 \text{ mA}$ ,  $P_i = 0,651 \text{ W}$ ,  $L_i = 0,6 \text{ mH}$ ,  $C_i = 0,044 \text{ } \mu\text{F}$

Cable must be suitable to according to the fireproof and 0,22mH (Max).

## Technical Parameters

Type	: ST series
Output signal	: 4 ~ 20 mA
Supply voltage	: 12 ~ 36 V DC
Rated voltage	: 24 V DC
Load resistance	: 350 $\Omega$
Ambient temperature	: -40 °C ~ +60 °C
Measurement range	: -200 °C ~ +1200 °C (See clause 15.1 for X means)
IP Protection Degree	: IP 65

## Product Code System



## Responsible Person:

Nurettin Terzioğlu  
Head of Certification Body



IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyon Ticaret Limited Sirketi  
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(16) Certificate Nr: IEP 21 ATEX 0935X

(17) Essential Health and Safety Requirements:

17.1 Are included in standards, which are mentioned in clause (9) of this certificate. The products were approved in accordance with above mentioned standards and manufacturer's instruction.

17.2 At the installation and the operation of the temperature transmitter has to be observed manufacturer's manual 9 pages dated 09.02.2021.

(18) List of Documentation:

- ♦ Temperature transmitter user manual:9 pages, dated 09.02.2021
- ♦ Equipment list:1 page temperature
- ♦ Drawings;

Drawing No;	Date;	Drawing No;	Date;
TK7.087.525	11.11.2019	TK8.390.511	11.11.2019
TK1.190.001 1-0	11.11.2019	TK8.390.516 1-8	11.11.2019
TK1.190.001 1-8	11.11.2019	TK8.510.503	11.11.2019
TK5.390.515 1-8	11.11.2019	TK8.510.506 1-8	11.11.2019
TK7.087.520 1-8	11.11.2019	TK8.571.501	11.11.2019
TK7.087.524	11.11.2019	TK8.823.022	11.11.2019
TK7.087.525	11.11.2019	TK8.860.501	11.11.2019
TK7.087.529 1-8	11.11.2019	TK8.923.021	11.11.2019
TK7.187.502	11.11.2019	TK8.923.501 1	11.11.2019
TK8.313.501	11.11.2019	TK8.923.501.2	11.11.2019
TK8.371.062	11.11.2019	TK8.940.501 3	11.11.2019
TK8.375.501	11.11.2019		

For the validity of analysis type certificate, the parts that are used in temperature transmitter is confirmed in the equipment list date temperature.

Responsible Person:

Nurettin Terzioğlu

Head of Certification Body



Date of Issue : 17.06.2021

