



(1) **EC-Type Examination Certificate**

(2) **Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 94/9/EC**

(3) EC Type Examination Certificate Number

EPS 15 ATEX 1 052 X

Revision: 0

(4) Equipment: I/P Converter YT-930

(5) Manufacturer: Young Tech Co., Ltd.

(6) Address: 81, Hwanggeum-ro 89 beon-gil, Yangchon-eup,
Gimpo-si, Gyeonggi-do, Korea 415-843, Republic of Korea

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

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 15TH0308.

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

EN 60079-0:2012 + A11:2013

EN 60079-11:2012

(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 schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design and the construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

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



II 2G Ex ia IIC T5/T6 Gb
II 2D Ex ia IIIC T100°C/T85°C Db

Certification department of explosion protection

Nuremberg, 2016-02-26



D. Zitzmann



(13)

Annex

(14) EC-Type Examination Certificate EPS 15 ATEX 1 052 X

Revision 0

(15) Description of equipment:

The YT-930 is a current/pressure converter which receives a 4-20 mA DC signal from the control room and outputs a 0.02-0.1 Mpa signal to a pneumatic-pneumatic positioner to operate a control valve system.

Electrical data:

Input signal circuit:

$U_i = 28 \text{ V}$

$I_i = 93 \text{ mA}$

$P_i = 650 \text{ mW}$, linear characteristic

$C_i = \text{negligible}$

$L_i = \text{negligible}$

The input signal circuit is galvanically separated against the enclosure.

Supply circuit PTM:

$U_i = 28 \text{ V}$

$I_i = 93 \text{ mA}$

$P_i = 650 \text{ mW}$, linear characteristic

$C_i = 0.6 \text{ nF}$ differentially between the lines and 2.2 nF against the enclosure

$L_i = 300 \text{ }\mu\text{H}$

The PTM circuit is galvanically separated against the enclosure.

(16) Test report: 15TH0308

(17) Special conditions for safe use:

The ambient temperature range deviates from the standard temperature range:

Temperature class T5: $-40 \text{ }^\circ\text{C} \leq T_{\text{amb}} \leq +60 \text{ }^\circ\text{C}$

Temperature class T6: $-40 \text{ }^\circ\text{C} \leq T_{\text{amb}} \leq +40 \text{ }^\circ\text{C}$

(18) Essential health and safety requirements:

Met by standards.

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