DEMKO
Testing and Certification

1. CERTIFICATE OF CONFORMITY

2. DEMKO No. 97D.123302

3. This certificate is issued for **Temperature Transmitter**

type **653S**

4a. Manufactured by **ABB Kent-Taylor spa, Via Statale 113, 22016 Lenno (CO) Italy**

4b. and submitted by **ABB Kent-Taylor spa, Via Statale 113, 22016 Lenno (CO) Italy**

5. This electrical apparatus and any acceptable variation thereto is specified in the Appendix to this certificate and the documents therein referred to.

6. DEMKO being an Approval Certification Body in accordance with Article 14 of the Council Directive of the European Communities of 18th December 1975, document 76/117/EEC, confirms that the apparatus has been found to comply with the harmonized European Standards:

EN 50014 incl. amd. 1 - 5
EN 50020 incl. amd. 1 - 5

7. The apparatus marking shall include the code:

EEx ia IIC T4/T6

8. The supplier of the electrical apparatus referred to in this certificate has the responsibility to ensure that the apparatus conforms to the specification laid down in the Appendix to this certificate and has satisfied routine verifications and tests specified therein.

9. The apparatus may be marked with the Distinctive Community Mark specified in Annex II to the Council Directive of 16 January 1984, document 84/47/EEC. A facsimile of this mark is printed at the top of this certificate. The marking of the equipment shall be visible, legible and durable.

For and on behalf of DEMKO

Jakob Nittegaard
Department Manager

Herlev, 1997-10-10

This certificate is only allowed to be rendered in entirety and without alterations.

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APPENDIX
to Certificate of Conformity No. 97D.123302

THIS APPROVAL APPLIES TO

Temperature transmitter
Supply: Max. 28 V DC, 4-20 mA current loop
Ambient temperature range: -40 °C < T_{amb} < +85°C
marked: "ABB Kent-Taylor spa"
01) **type:** 653S
protected for use in potentially
explosive atmospheres (intrinsic safety)
EEx ia IIC T6 (÷40°C < T_{amb} < +60°C)
EEx ia IIC T4 (÷40°C < T_{amb} < +85°C)

Manufactured by:
ABB Kent-Taylor spa
Via Statale 113
22016 Lenno (CO) Italy

Submitted by:
ABB Kent-Taylor spa
Via Statale 113
22016 Lenno (CO) Italy

The product type has been tested in accordance with the CENELEC Standard EN 50014 incl. amd. 1 - 5 and EN 50020 incl. amd. 1 - 5.

The approval applies to products, strictly identical with the submitted and approved product type. If you make any alteration of the product, including the marking, you are obliged to inform DEMKO about this by letter.

DESCRIPTION OF THE APPARATUS

The assembly is a temperature transmitter identified as model 653S, consisting of an output meter (DELTAPI K), a temperature transmitter (5335B.) and a terminal block - all fitted inside a metallic enclosure.

INTRINSICALLY SAFE SPECIFICATIONS

U_i ≤ 28 Vdc
I_i ≤ 120 mA dc
L_i ≤ 10 μH
C_i ≤ 1 nF

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SPECIAL CONDITIONS FOR SAFE USE

The equipment must be electrically connected via an approved or certified isolating interface/zener barrier placed outside the hazardous area.

The transmitter may only be used with sensors which is considered as simple apparatus.

DRAWINGS

Number	Date	Description
1H5-15-00810	1997-10-07	Safety Marking plate of Temperature Transmitter Model 653S

The approval entitles the licensee to provide the product with the registered approval mark Ⓓ and the Epsilon-x mark.

For and on behalf of DEMKO

Herlev, 1997-10-10

Jakob Nittegaard
Department Manager

Examiner:
Klaus Hansen

This appendix is only allowed to be rendered in entirety and without alterations.

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