


**CERTIFICATE OF CONFORMITY**



- 1.
2. DEMKO No. 97D.122159
3. This certificate is issued for **Temperature Transmitter**  
type **653L**
- 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

Herlev, 1997-02-26

  
Jakob Nittegaard  
Department Manager



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

DEMKO A/S Testing and Certification, P.O. Box 514, Lyskaer 8, DK-2730 Herlev, Denmark  
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A subsidiary of



**Underwriters Laboratories Inc. ®**



**APPENDIX**  
to Certificate of Conformity No. 97D.122159

**THIS APPROVAL APPLIES TO**

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

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 653L, consisting of an output meter (DELTA PI K), a temperature transmitter (5333B. - certified by DEMKO with the No.97D.122102) and a terminal block - all fitted inside a metallic enclosure.

**INTRINSICALLY SAFE SPECIFICATIONS**

$U_i \leq 28 \text{ Vdc}$   
 $I_i \leq 120 \text{ mA dc}$   
 $L_i \leq 10 \mu\text{H}$   
 $C_i \leq 23 \text{ nF}$

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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
1H5-15-00805	1995-10-09	600T SERIES
1H5-15-00808	1997-02-21	Safety Marking Plate of Temperature Transmitter Model 653L

The approval entitles the licensee to provide the product with the registered approval mark  $\text{\textcircled{D}}$  and the Epsilon-x mark.

For and on behalf of DEMKO

Herlev, 1997-02-26

  
Jakob Nittegaard  
Department Manager

Examiner:  
Klaus Hansen

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