EXTENSION n. 01/06

to EC-Type Examination Certificate CESI 00 ATEX 008 U

Component: **Enclosures for Thermometric complexes series TTE100**

Manufacturer: **F.P.L**
Elettroceramica Industriale Srl

Address: **Via Roma, 60**
Lungavilla (PV) - Italy

Admitted variation

Adjustment of the referenced standards;

Dust protection: **Category 2 GD**

Ambient temperature range widening: **T_{amb} = [-40°C ÷ +60°C];**

Modification of the ATEX marking in the plate:

II 2 GD Ex d IIC tD A21 IP66 T_{amb} (-40°C ÷ +60°C)

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 00 ATEX 008 U.

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date 21st November 2006 - translation issued 21st November 2006

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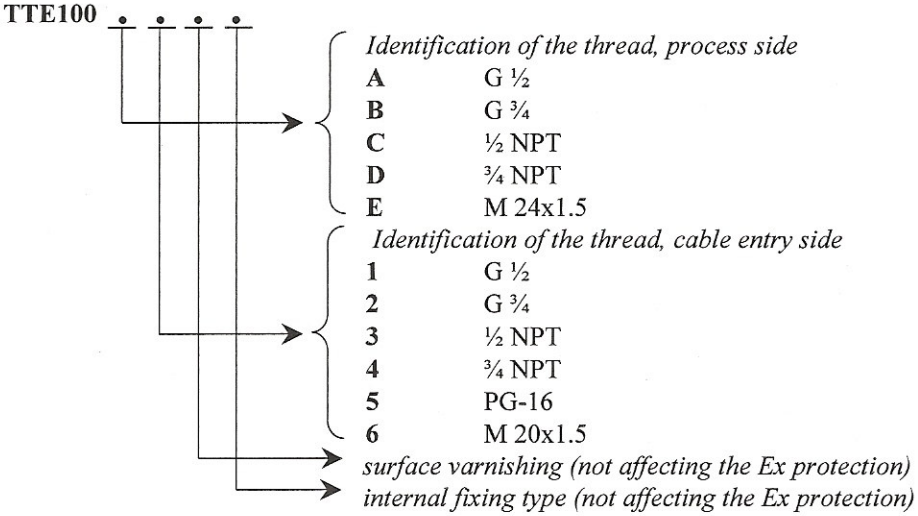
Description of equipment

The enclosures for thermometric complexes are identified through the following code:



The enclosures for thermometric complexes of category 2GD shall be marked as follows:

II 2 GD Ex d IIC tD A21 IP66 T_{amb} (-40°C ÷ +60°C)

Accessories used for cable entries and to close unused holes shall be certificated according to the standards EN 60079-0, EN 60079-1, IEC 61241-0 and EN 61241-1 and shall guarantee a minimum protection degree IP66, according to the standard EN 60529.

Routine tests

The manufacturer shall carry out the routine tests prescribed at paragraph 24 of the standard EN 60079-0, at paragraph 16 of the standard EN 60079-1 and at paragraph 24 of the standard IEC 61241-0.
The manufacturer is exempted from the routine overpressure test on the enclosures series TTE100, since it has overcome the type test, using the static method (paragraph 15.1.3.1 of EN 60079-1 standard), at the pressure of 43.5 bar equal to 4 times the reference pressure keeping into account the minimum working temperature.

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Report n. EX-A6030952

Descriptive documents (prot. EX-A6030964)

- Technical note TTE100 rev. G (5 sheets)	dated 07/11/2006
- Safety instruction – TTE100 M-EX01 rev. B	dated 07/11/2006
- Attestation of conformity of the component M-EX02 rev. B	dated 07/11/2006
- Drawing SCEX01 – configuration scheme of the constructions rev. C	dated 07/11/2006
- Technical drawing n. 5098001 rev. F	dated 07/11/2006
- Technical drawing n. PJ0312CS rev. E	dated 07/11/2006
- Characteristics of the *Compound NBR 70-X6* used for the *O-ring*	
- Manufacturer's letter	dated 16/11/2006

One copy of all the documents mentioned above is kept in CESI files.

Schedule of limitations

- Temperature limit for the usage: -40°C ÷ +100°C.
- The protection degree IP66 which fulfils the requirements for the category 2GD is guaranteed only in case the enclosures TTE100 are connected to the thermometer pocket by means of a threaded nipple without the interposition of a three pieces joint, as shown in the annexed documents. In case the thermometric complexes were made connecting the enclosure to the thermometer pocket by means of a three pieces joint they would be category 2G apparatus with protection IP54.

Essential Health and Safety Requirements

Covered by compliance to the following standards:
EN 60079-0 : 2006 – Electrical apparatus for explosive gas atmospheres: General requirements
EN 60079-1 : 2004 – Electrical apparatus for explosive gas atmospheres: Flameproof enclosures "d"
IEC 61241-0 : 2004 – Electrical apparatus for use in the presence of combustible dust: General requirements
EN 61241-1 : 2004 – Electrical apparatus for use in the presence of combustible dust: Protection by enclosures "tD"

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