



# TB8

## bi-metal thermometers, all stainless steel construction, ATEX versions, DS 100-125-150 mm



These instruments are designed for explosive atmospheres in food, processing, pharmaceutical, petrochemical industries and conventional and nuclear power plants. They are in conformity with the essential Health and Safety Requirements laid down in European Directive 2014/34/UE for Group II, Category 2G or 2GD equipment in the T1...T6 temperature classes. They are NOT suitable for ZONES 0 and 20.

### 2G3 Version , Gas

They are available as **standard dry** version, and keep the same functional and constructive features as TB8 model. They differ from it as follow:

**Ambient temperature:** -40...+60 °C.

**Max process fluid temperature "Tp":** see table (measured on the lowest point of socket).

**Windows:** high resistance safety glass.

**Dial marking:** CE Ex II 2G c TX X, model name and serial number.

**Special dial:** ranges different from standard, custom artworks and dials without Nuova Fima logo are not available.

**Options:** plexiglas or tempered glass windows and overtemperature are not available.

**Included documentation:** Installation manual and UE Declaration of Conformity.

### 2D3 Version, Gas and Dust

They are available as **fillable** and **filled** version, and keep the same functional and constructive features as TB8 model . They differ from it as follows :

**Damping liquids:** glycerine 98%, silicon oil.

**Ambient temperature:**

-40...+60 °C for dry version;

0...+60 °C for glycerine filling;

-40...+60 °C for silicon oil filling.

**Max process fluid temperature "Tp":** see table (measured on the lowest point of socket).

**Windows:** high resistance safety glass.

**Dial marking:** CE Ex II 2GD c TX X, model name and serial number.

**Special dial:** ranges different from standard, custom artworks and dials without Nuova Fima logo are not available.

**Options:** plexiglas or tempered glass windows and overtemperature are not available.

**Included documentation:** Installation manual and UE Declaration of Conformity.

Class	Tp
T6 : 185°F (85°C)	176°F (80°C)
T5 : 212°F (100°C)	203°F (95°C)
T4 : 275°F (135°C)	266°F (130°C)
T3 : 392°F (200°C)	383°F (195°C)
T2 : 572°F (300°C)	554°F (290°C)
T1 : 842°F (450°C)	824°F (440°C)



Technical File: TF3 - Rev. 1

ISO 9001 : 2008

Cert. nr. 0433/6

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ATEX versions,  
DS 100-125-150 mm**



These instruments are designed for explosive atmospheres in food, processing, pharmaceutical, petrochemical industries and conventional and nuclear power plants. They are in conformity with the essential Health and Safety Requirements laid down in European Directive 2014/34/UE for Group II, Category 3GD equipment in the T1...T6 temperature classes. They are suitable for installations within ZONES 2 and 22.

### 3D3 Version, Gas and Dust

They are available as **IP65** version, and keep the same functional and constructive features as TB8 model. They differ from it as follows :

**Protection degree:** IP 655 as per IEC 529.

**Ambient temperature:** -40...+60 °C.

**Max process fluid temperature "Tp":** see table (measured on the lowest point of socket).

**Windows:** high resistance safety glass.

**Dial marking:** CE Ex II 3GD c, model name and serial number.

**Special dial:** ranges different from standard, custom artworks and dials without Nuova Fima logo are not available.

**Options:** liquid filling, plexiglas or tempered glass windows and overtemperature are not available.

**Included documentation:** Installation manual and UE Declaration of Conformity.

Class	Tp
T6 : 185°F (85°C)	176°F (80°C)
T5 : 212°F (100°C)	203°F (95°C)
T4 : 275°F (135°C)	266°F (130°C)
T3 : 392°F (200°C)	383°F (195°C)
T2 : 572°F (300°C)	554°F (290°C)
T1 : 842°F (450°C)	824°F (440°C)

**Technical File:** TF13 - Rev. 1