

bi-metal thermometers, all stainless steel construction, ATEX versions, DS 4", 6" (100-150 mm)

TB8

REV.A.1 E 12/08



Versions
2E3/2K3
II
2
GD
T6
IP65

Group: all the installations, with exclusion of mines
Category: high level of protection
Explosive atmosphere: inflammable gases and dusts
Temperature class: 85°C
Enclosure protection

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 94/9/EC for Group II, Category 2G or 2GD equipment in the T1...T6 temperature classes. They are NOT suitable for ZONES 0 and 20.

2E3 Version , Gas and Dust

They are available as **standard** or **fillable** version, 4" and 6" (DS 100-150 mm).

They keep the same functional and constructive features as TB8 model with **ranges** $\leq 80^{\circ}\text{C}$. They differ from them as follows :

- Ambient temperature:** $-4...+140^{\circ}\text{F}$ ($-20...+60^{\circ}\text{C}$).
- Max process fluid temperature "Tp":** see table (measured on the lowest point of socket).
- Windows:** high resistance safety glass.
- Dial marking:** CE Ex II 2GD c T6 X TF3 IP65 T85°C, model name and serial/lot 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.

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)

2K3 Version, Gas and Dust

They are available as **fillable** version, 4" and 6" (DS 100-150 mm).

They keep the same functional and constructive features as TB8 model with **ranges** $>80... \leq 250^{\circ}\text{C}$. They differ from them as follows :

- Damping liquids:** glycerine 98%, silicon oil.
- Ambient temperature:** $+59...+140^{\circ}\text{F}$ ($+15...+60^{\circ}\text{C}$) for glycerine filling; $-4...+140^{\circ}\text{F}$ ($-20...+60^{\circ}\text{C}$) 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 ck T6 X TF3 IP65 T85°C, model name and serial/lot 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.

Technical File: TF3 - Rev. 0/2005.

bi-metal thermometers, all stainless steel construction, ATEX versions, DS 4", 4.5", 6" (100-125-150 mm)

TB8

REV. A.1 E 12/08

Versions
3D3
II
3
GD
c

Group: all the installations, with exclusion of mines
Category: high level of protection
Explosive atmosphere: inflammable gases and dusts
Type of ignition protection: constructional safety



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 94/9/EC 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, 4", 4.5" and 6" (DS 100-125-150 mm).

They keep the same functional and constructive features as TB8 model. They differ from them as follows :

Protection degree: IP 655 as per IEC 529.

Ambient temperature: -4...+140 °F (-20...+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/lot 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.

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. 0/2006.

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