


Certificate of Compliance

Certificate: 1183965 **Master Contract:** 209943
Project: 1183965 (Edition 1) (KEMA: 2007223.00) **Date Issued:** April 10, 2001
Issued to: Krohne S.A.
 Usine des Ors BP08
 Romans, 26103
 France

The products listed below are eligible to bear the CSA Mark shown




Issued by: Tho Nguyen, C.E.T.
 Certification Specialist


Authorized by: John Verwey, P.Eng.
 Operations Manager

CLASS

2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

PRODUCTS

Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III

Reflex Radar Level Meter Model: BM102 Type VF03 4 or Type SF03 9; Exia Cl. I, Gr. A, B, C & D; Cl. II, Gr. E, F & G; Cl. III; Ambient Temperature -30°C to +60°C; Max. Process Pressure 4000KPa (580psi); T-Codes as per table below and Intrinsically Safe if installs as per Ill. 1(F0820860412).

Transmitter without extension tube:

| Temperature Class | Ambient Temperature | Process Temperature |
|-------------------|---------------------|---------------------|
| T6 | ≤ 60°C | ≤ 85°C |
| T5 | ≤ 60°C | ≤ 100°C |
| T4A | ≤ 60°C | ≤ 120°C |
| T4 | ≤ 60°C | ≤ 135°C |

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Transmitter with extension tube of 50mm:

| Temperature Class | Ambient Temperature | Process Temperature |
|-------------------|---------------------------|----------------------------|
| T3C | $\leq 60^{\circ}\text{C}$ | $\leq 160^{\circ}\text{C}$ |
| T3B | $\leq 60^{\circ}\text{C}$ | $\leq 165^{\circ}\text{C}$ |
| T3A | $\leq 60^{\circ}\text{C}$ | $\leq 180^{\circ}\text{C}$ |
| T3 | $\leq 55^{\circ}\text{C}$ | $\leq 200^{\circ}\text{C}$ |

Transmitter with extension tube of 100mm:

| Temperature Class | Ambient Temperature | Process Temperature |
|-------------------|---------------------------|----------------------------|
| T3 | $\leq 60^{\circ}\text{C}$ | $\leq 200^{\circ}\text{C}$ |

Entity Parameters are as follow:

Vmax. = 30Vdc
Imax. = 150mA
Pmax. = 1.0W
Ci = 10.5nF
Li = 10 μ H

Refer to Ill. 1(F0820860412) for more details.

APPLICABLE REQUIREMENTS

- CSA Standard C22.2 No 0-M1991 - General Requirements - Canadian Electrical Code Part II.
- 0.4-M1982 - Bonding and Grounding of Electrical Equipment (Protective Grounding).
- 25-M1966 - Enclosures for Use in Class II Groups E, F and G Hazardous Locations.
- 94-M1991 - Special Purpose Enclosures.
- 142-M1987 - Process Control Equipment.
- 157-M1992 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations.



Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

| Project | Date | Description |
|----------------|----------------|---|
| 1183965 | April 10, 2001 | Original Certification of Reflex Radar Level Transmitter Model: BM102 Type VF03 4 or Type SF03 9. |