

ATEX Safety Instructions

Models covered:

LT***TF*****

LT***TR*****

LT***TG*****





Instructions specific to hazardous area installations

Model numbers covered: LT***TF*****, LT***TR*****, LT***TG***** (** indicates options in construction, function and materials.) The following instructions apply to equipment covered by certificate number **SIRA 03ATEX1190X**:

1. The equipment may be used with flammable gases, vapours with apparatus groups IIA, IIB & IIC, and with temperature classes T1, T2, T3, T4, T5 & T6.
Note: The enclosure may be at the higher of the process or ambient temperature.
2. The equipment is suitable for installation across the boundary between an area that specifically requires Equipment Protection Level Ga (Zone 0) and an area that specifically requires Equipment Protection Level Gb (Zone 1). The displacer/spring/core assembly only are to be installed in Zone 0.
3. Installation of this equipment shall be carried out by suitably trained personnel, in accordance with the applicable code of practice.
4. Inspection and maintenance of this equipment shall be carried out by suitably trained personnel, in accordance with the applicable code of practice. Only approved spares supplied by the manufacturer or approved agent should be used.
5. No maintenance or repair of the flameproof enclosure is permitted.
6. The certification of this equipment relies upon the following materials used in its construction:

Wetted parts (Partition Wall): Stainless steel 316 type
Or Hastelloy
Or Monel
Or Inconel
Or Incoloy

Non-wetted: Cast Iron
Or Aluminum Alloy
Or Stainless Steel 316 Type

If the equipment is likely to come into contact with aggressive substances, it is the responsibility of the user to take suitable precautions that prevent it from being adversely affected, thus ensuring that the type of protection is not compromised.

Aggressive Substances - e.g. acidic liquids or gases that may attack metals or solvents that may affect polymeric materials.

Suitable Precautions - e.g. regular checks as part of routine inspections or establishing from the material's data sheet that it is resistant to specific chemicals.

Note: The metallic alloy used for the enclosure material may be at the accessible surface of this equipment; in the event of rare accidents, ignition sources due to impact and friction sparks could occur.

7. It is the responsibility of the user to ensure:
 - (a) That only suitably certified cable entry devices will be utilized when connecting this equipment.
 - (b) That suitable temperature rated cable is used. The cable entry temperature may exceed 70°C.
 - (c) That any unused cable entries are sealed with suitably certified stopping plugs.
 - (d) The joint requirements between the MLT100 and vessel are compatible with the process media.
 - (e) That the joint tightness is correct for the joint material used.
 - (f) The voltage and current limits for this equipment are not exceeded.
 - (g) Safe working practices for the media and process concerned are followed during the installation and maintenance of the equipment.

8. Only screws and fittings provided by the manufacturer can be attached to the housing.

9. Technical Data:

Coding:  II 1/2 G "Process Sealed"
Ex db IIC 'T6...T1' Ga/Gb (-40°C ≤ Ta ≤ +75°C)

- (a) Electrical: Um: +40V, Imax: 25mA,
- (b) Pressure: Must not exceed the rating marked on the product.
- (c) Year of Manufacture: marked on the product label.

10. Special conditions for safe use:

- (a) The enclosure must not be opened when a flammable atmosphere is present, even when the equipment has been electrically isolated.
- (b) Partition wall may not be stainless steel, (see materials of construction above), therefore the product shall not be subjected to environmental stresses that might adversely affect the partition wall.
- (c) The enclosure may be given a non-standard paint finish which may constitute a potential electrostatic ignition risk. Care should be taken to protect it from external conditions conducive to the build-up of electrostatic charge on such surfaces. The enclosure must not be rubbed or cleaned with a dry cloth.
- (d) When the float is made from a non-metallic material, the user shall ensure that the material is suitable for the application.

MLT100

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