

ATEX Category 3 Certificate

Certificate of Conformity for Group II Category 3 G equipment in accordance with Directive 2014/34/EU.

Certificate relating to the following products:-

MTL4573 & MTL4573Y Temperature Converters

This equipment fulfils all the requirements for Group II, Category 3 G equipment in accordance with Directive 2014/34/EU when installed according to the Special Conditions of Safe Use listed below. The design complies with EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018 and EN 60079-15:2010. The analysis is fully documented in Technical File TF_4573_5573.

This equipment has intrinsically safe connections, and has been separately assessed as associated equipment by Baseefa, which is not covered by this certificate. All other connections of this equipment are non-sparking in normal operation. The equipment in normal operation is incapable of producing arcs, sparks or hot surfaces which may cause ignition and is designed to be installed and used in accordance with EN 60079-14:2014. Note Special Conditions of Safe Use below.

The required marking of the apparatus is as specified in the Technical File referenced above and includes the distinctive community mark:



In addition, the marking will include the CENELEC codes:

Ex nA IIC T4 Gc
Ex ec IIC T4 Gc

The ambient temperature limitation for the equipment is -20°C to +60°C.

Manufacture is controlled by an ISO9001:2015 approved system.

The apparatus meets the ATEX Directive requirements for electromagnetic radiation by complying with the EMC Directive 2014/30/EU.

The standards published in the Official Journal of the European Commission with reference to the Low Voltage Directive 2014/35/EU have been used to fulfil the requirements of 1.2.7 of Annex II of directive 2014/34/EU to avoid electrical risks.

If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to Special Conditions of Safe Use specified elsewhere in this certificate.

Maximum Input/Output parameters:

Supply circuit	Terminals 13 & 14
Supply voltage Range = 20-35Vdc	
THC & RTD Inputs	Terminals 1 to 6 (forming part of same circuit)
Maximum Output Voltage = 6.6V	
THC & RTD Inputs	Terminals 1 & 3 (without CJC plug fitted)
Maximum Output Voltage = 1.1V	
THC & RTD Inputs	Terminals 1, 2 & 3 (with or without CJC plug fitted)
Maximum Output Voltage = 6.6V	
Signal Outputs	Terminals 8, 9 & 11
Nominal output of 4-20mA into a maximum load of 600Ω	

Special Conditions of Safe Use for Ex nA marking:

- When used in Zone 2, the equipment must be installed in an enclosure or environment that provides a degree of protection of at least IP 54 and meets the relevant material and environmental requirements of EN IEC 60079-0:2018 and EN 60079-15:2010.
- All connections to the equipment (excluding intrinsically safe connections which are covered by separate ATEX approval) must not be inserted or removed unless the area in which the equipment is installed is known to be non-hazardous, or the circuit to which it is connected has been de-energised.
- The 24V nominal (35V maximum) supply for this equipment must be derived from a regulated power supply complying with the requirements of European Community Directives.
- Any backplane used does not form part of this certificate and shall be separately certified for use in Zone 2.
- The associated backplane must be fitted with MTL4500 Series retention clips (use type MCK45 if not fitted) that allow the equipment to be 'clipped' to the backplane. The retention clips shall always be in place when the equipment is energised.

Special Conditions of Safe Use for Ex ec marking:

- The equipment must be installed in an area of not more than Pollution Degree 2 as defined in IEC 60664-1, and in an enclosure that provides a degree of protection of at least IP54 and meets the relevant requirements of EN IEC 60079-0 and EN IEC 60079-7.
- All connections to the equipment must not be inserted or removed unless either the area in which the equipment is installed is known to be non-hazardous, or the circuit to which it is connected has been de-energised.
- Any backplane used does not form part of this certificate and shall be separately certified for use in Zone 2.
- The external backplane must be fitted with two retention clips type MTL 012-533 that allow the equipment to be 'clipped' to the backplane. The retention clips shall always be in place when the equipment is energised.



Stewart Parfitt
Engineering Director
Luton
4th September 2023