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Type Examination Certificate

for Electrical Equipment used in Potentially Explosive Atmosphere

Issued by Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK	
Applicant	Mettler-Toledo K.K. 2-9-7 Ikenohata, Taito-ku, Tokyo, Japan
Manufacturer name	Mettler-Toledo GmbH Im Hackacker 15 8902 Urdorf Switzerland
Product name	Tunable Diode Laser Spectrometer
Type/model code	GPro500
Type of protection	Flameproof, Dust Ignition Protection by Enclosure
Group, Temperature Class and EPL	IIC, IIIC, T6, T80°C Gb, Db
The equipment shall be marked with the following	Ex db [op is Ga] IIC T6 Gb Ex tb [op is Da] IIIC T80 °C Db
Ratings	-20°C ≤ Tamb ≤ +55°C Max 24 V 5W
Special condition for safe use	See attachment 1
Certificate number	CML 19JPN1467X
Term of validity	From 13-03-2020 to 12-03-2023 
	From 13-03-2023 to 12-03-2026 

This is to certify that the equipment specified above complies with the requirements stipulated in Ordinance on Examination of Machines and Other Equipment of the Ministry of Health, Labour and Welfare, Japan.

Issue date: 13-03-2023

Signature of chief examiner:



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CML 19JPN1467X

Issue: 2

Attachment 1: Special condition for safe use

1. Flameproof Joints are not intended for repair.
2. In the normal configuration, the temperature at the interface between the sensor head and the probe should not exceed +55 °C. If the temperature at the interface to the sensor head is more than +55 °C, the temperature class T6 (85 °C) is exceeded.
3. If the temperature exceeds +55 °C at the interface, a thermal barrier to limit the temperature to less than +55°C has to be used in addition.
4. The metal body of the TDL Spectrometer must be conductively connected with the equipotential bonding system of the installation