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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	Keit Ltd Unit 4, Zephyr Building, Eighth Street, Harwell Campus, Didcot, OX11 0RL
Manufacturer name	Keit Ltd Unit 4, Zephyr Building, Eighth Street, Harwell Campus, Didcot, OX11 0RL
Product name	Spectrometer
Type/model code	IRmadillo ASM0627-09-B-C-D-E-F-G-H
Type of protection	Flameproof
Group, Temperature Class and EPL	IIB+H2, T4, Ga/Gb
The equipment shall be marked with the following	Ex db IIB+H2 T4 Ga/Gb
Ratings	See attachment 1
Special condition for safe use	See attachment 2
Certificate number	CML 23JPN1126X
Term of validity	From 19-04-2023 to 18-04-2026 

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: 19-04-2023

Signature of chief examiner:



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CML 23JPN1126X

Issue: 0

Attachment 1: Ratings

100-240 Vac, 50/60 Hz, 120 W max**

** Equipment is marked as max rating 120 W but is only capable of supplying 110 W maximum

Attachment 2: Special conditions for safe use

- i. The media to be monitored shall be in an area where dust particles are excluded.
- ii. The probe shall be mounted so it is protected from impact.
- iii. Models with external parts manufactured from light metals (eg titanium) can be an ignition source due to impact or friction sparks. This shall be considered during installation, particularly in zone 0 locations.
- iv. On equipment fitted with probe type 'K' (High Temperature dia25), the rate of change of temperature on the end of the probe shall be limited to 50 °C per minute maximum.
- v. It is the responsibility of the manufacturer, installer and end user to ensure chemical compatibility between the process analyte and all wetted materials. Consult manufacturer before installation in a process.
- vi. The main enclosure shall not be opened and the flamepaths shall not be repaired.