

ATEX Category 3 Certificate

Equipment intended for use in potentially explosive atmospheres

Certificate Number: BME-GU-Z2-LED-19

Reference Certificate: EPSILON06ATEX2098X

Equipment: Guardian Portable Light (LED Version)

Manufacturer: BME Nitech Limited

Address: Unit 2A Nevis Business Park
Balgownie Road
Aberdeen
AB22 8NT

This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

BME Nitech Ltd certifies that this equipment or protective system has been found to comply with the essential health and safety requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the directive 2014/34/EU.

The examination and test results are recorded in confidential report no RETS(A)1605/A/1, RETS(A)1605/A/2 and BME-GU-Z2-LED-RPT-19.

Compliance with the essential health and safety requirements has been assured by compliance with:

BS EN 60079-0:2018, BS EN 60079-7:2015, BS EN 60079-11:2012, BS EN 60079-18:2015,
and BS EN 60079-31:2014

The equipment is subject to special conditions of use of which are defined in the schedule of this certificate. Certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the ATEX Directive 2014/34/EU.

The marking of the equipment shall include the following:

 II 3 G D Ex ec ic mc IIC T4 Ex tc IIIC IP65 T81C

On behalf of BME Nitech Ltd:

Signed: 

Print: CALUM DAVIDSON

Date: 1st March 2019

ATEX Category 3 Schedule

Certificate Number: BME-GU-Z2-LED-19
 Reference Certificate: EPSILON06ATEX2098X

Equipment Description:

The Guardian portable light (LED version) is a transportable battery powered floodlight. It consists of a battery enclosure and light-head of which are interconnected by a coiled cable passing through a cable gland on each enclosure. Within the battery enclosure there is a 12V 18Ah Sealed Valve Regulated Lead Acid battery. The light-head enclosure incorporates a socket with a removable threaded lanyard mounted cover to allow for charging of the battery within the safe area only. Within the light-head is a control module that: limits the supply to the battery to 1.5A, ensures that the power flows one way from the charging socket; separately supplies the switch; controls the output to the driver circuits for the 16x 1W LEDs incorporating transient crowbar protection; and provides the low voltage warning system through an alarm and indicator to inform the user of impending low battery to protect the battery from deep discharge. The light is transmitted through an injected moulded polycarbonate lens. The light is operated by a two-pole single throw switch. The overall dimensions for the unit are 263mm x 242mm x 565mm with the light-head angled to full height. The apparatus has been tested for ingress protection and meets the requirements of IP65. It has been certified for use in Zone II (2) for gas environments and Zone 22 for dust environments. For use within an ambient temperature of -20°C to +40°C.

Drawings:

Number	Revision	Sheet	Date	Title
EX002	2	1 of 1	1 st March 2019	Base
EX003	2	1 of 1	1 st March 2019	Lid
EX011	2	1 of 1	1 st March 2019	Lid Gasket
EX009	3	1 of 1	1 st March 2019	Lens
EX013	0	1 of 1	1 st March 2019	Lens Gasket
EX008	3	1 of 1	1 st March 2019	Light-Head
EX012	2	1 of 1	1 st March 2019	Light-Head Gasket
EX015	0	1 of 1	1 st March 2019	Zone II Guardian LED Label
ARCV61	1	2 of 2	1 st March 2019	Control Module Circuit Diagram
ARCV46	3	1 of 1	1 st March 2019	Control Module Encapsulation Diagram

Special Conditions of Certification

- Use only with the power leads supplied.
- Do not open when energised.
- Do not open when an explosive atmosphere is present.
- Clean only with an anti-static damp cloth