

[1] EC TYPE-EXAMINATION CERTIFICATE

[2] Equipment or Protected System Intended for use
in Potentially explosive atmospheres
Directive 94/9/EC

[3] EC-Type Examination Certificate Number: Nemko 08ATEX1325X

[4] Equipment or Protective System: ROADSIDE FLASHER
[5] Applicant / Manufacture: Austdac Pty Ltd
[6] Address: Unit 1/4 Packard Avenue
Castle Hill NSW 2154
Australia

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] Nemko AS, notified body number 0470 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. 110119

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

CENELEC EN 60079-0: 2004, CENELEC EN 60079-11: 2007

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC.
Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following :

CE₀₄₇₀



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Ex ia I

Oslo, 2008-09-12



Rolf Hoel
Certification Manager, Ex-products

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[13] Schedule**[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 08ATEX1325X****[15] Description of Equipment or Protective System**

The apparatus model MFLA2 is designed to be a portable self-contained Instrument, which gives a visual warning when energized. The apparatus consists of an internal encapsulated battery pack, a printed wiring board (PWB) upon which electronic components are mounted. The battery pack and PWB are housed in a plastic and steel enclosure and a switch for energized the apparatus mounted in the upper surface of the enclosure. The apparatus comes with three options listed below;

1. Remote switching. An alternative model is available with an internal cable (4m max. length) that is for controlling the apparatus remotely.
2. An optical "S" hook.
3. A magnetic base housed in mild steel housing.

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[16] Report No. 110119**Descriptive Documents**

Name/Title	Drawing No.	Issue	Date	Sheet No
ROADSIDE FLASHER TYPE MFLA2 DOCUMENT LIST	59-055-37	7	14.06.2008	3
ROADSIDE FLASHER TYPE MFLA2 BATTERY ENCLOSURE	59-056-06	7	13.08.2007	2
ROADSIDE FLASHER TYPE MFLA2 BATTERY POSITIONING TOOL	59-057-06	3	17.08.2007	1
ROADSIDE FLASHER TYPE MFLA2/MFLA5 EXTERNAL CONTACT BATTERY CONNECTION WIRING DIAGRAM	59-058-05	13	30.07.2007	2
ROADSIDE FLASHER TYPE MFLA2 PVC STRIP FOR BATTERY	59-059-06	2	21.06.2006	1
ROADSIDE FLASHER TYPE MFLA2 BASE	59-060-06	4	18.05.2006	1
ROADSIDE FLASHER TYPE MFLA2 LENS GASKET	59-061-06	2	21.04.2006	1
ROADSIDE FLASHER TYPE MFLA2 STANDOFF GUARD	59-062-06	4	21.04.2006	1
ROADSIDE FLASHER TYPE MFLA2 LENS GUARD	59-063-06	3	21.04.2006	2
ROADSIDE FLASHER TYPE MFLA2 ASSEMBLY DIAGRAM	59-064-04	13	13.08.2007	3
ROADSIDE FLASHER TYPE MFLA2 PCB0134A BILL OF MATERIALS	59-065-14	7	15.08.2007	2
ROADSIDE FLASHER TYPE MFLA2 BILL OF MATERIALS	59-066-14	8	16.08.2007	2
ROADSIDE FLASHER TYPE MFLA2 SCHEMATIC DIAGRAM	59-067-03	6	18.05.2006	1
ROADSIDE FLASHER TYPE MFLA2 PCB0134A ARTWORK DETAILS	59-068-21	8	12.05.2006	3
ROADSIDE FLASHER TYPE MFLA2/MFLA5 BATTERY PACK SCHEMATIC DIAGRAM	59-069-03	11	05.10.2007	1
ROADSIDE FLASHER TYPE MFLA2 PCB0134A COMPONENT LOADING DIAGRAM	59-070-07	8	16.08.2007	1
ROADSIDE FLASHER TYPE MFLA2 LENS GUARD WITH HANDLE OPTION MECHANICAL DIAGRAM	59-071-06	2	21.04.2006	1
ROADSIDE FLASHER TYPE MFLA2 HANDLE OPTION ASSEMBLY DIAGRAM	59-072-04	3	13.07.2006	1
ROADSIDE FLASHER TYPE MFLA2 PRODUCTION TEST PROCEDURE	59-073-09	2	15.05.2006	5
ROADSIDE FLASHER TYPE MFLA2 LABEL DETAILS	59-074-13	6	09.01.2008	1
FLASHER TYPE BASE TYPE MFLA2.1 MECHANICAL DETAILS	59-075-06	2	21.04.2006	1
FLASHER WITH GUARD TYPE MFLA2.1 BILL OF MATERIALS	59-076-14	2	04.05.2006	2
FLASHER WITH GUARD TYPE MFLA2.1 ASSEMBLY DIAGRAM	59-077-04	2	21.04.2006	1
ROADSIDE FLASHER TYPE MFLA2 USERS MANUAL	59-078-12	3	13.06.2008	6
ROADSIDE FLASHER TYPE MFLA2 BLANK PCB0134A INSPECTION PROCEDURE	59-079-09	1	18.05.2006	2
ROADSIDE FLASHER TYPE MFLA2 PRODUCT QUALITY MANUAL	59-137-42	1	16.05.2006	21
ROADSIDE FLASHER TYPE MFLA2/MFLA5 BATTERY PACK INSPECTION PROCEDURE	59-138-09	2	16.11.2007	4
ROADSIDE FLASHER TYPE MFLA2 POTTING TOOL MECHANICAL DETAILS	59-139-06	1	16.08.2008	1
ROADSIDE FLASHER TYPE MFLA2 LENS MECHANICAL DETAILS	59-140-06	1	13.06.2008	1

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[17] Special Conditions for Safe Use

1. The optional integral cable shall only be connected to a voltage free switching device (eg. relay contact) with appropriate ratings and segregation to suit the entity parameters listed in the following table below.

U _o =	6.6	V
I _o =	125	mA
P _o =	169	mW
C _o =	1000	uF
L _o =	30	mH
C _i =	Negligible	nF
L _i =	Negligible	nH
U _i =	0	V
U _m =	0	V

2. The apparatus contains no user replaceable electronic components.

[18] Essential Health and Safety Requirements

See item 9

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