

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Manual Call Point**with type designation(s)
SM87PB

Issued to

Eaton MEDC Ltd
Sutton in Ashfield, United Kingdom

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft
IEC 60945 Ed. 4 (2002-08) Maritime navigation and radiocommunication equipment and
systems – General requirements – Methods of testing and required test results**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed**
by DNV GL.**Location classes:**

Temperature	D
Humidity	B
Vibration	A
EMC	A
Enclosure	C / IP66

This Certificate is valid until **2022-01-31**.Issued at **Høvik** on **2017-02-01**DNV GL local station: **Manchester**Approval Engineer: **Frode Nygård**for **DNV GL**

Odd Magne Nesvåg
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Product description

Manual Call Point designed for use in potentially explosive areas and harsh environment.

Type designation	Type
SM87PB	Hazardous Area Call Point

Application/Limitation

System application and location of Manual Call Points to be in accordance with relevant parts of DNV GL Rules.

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

The MCP does not show compliance with the performance requirements in the European standard for Fire detection and Fire alarm systems, EN54-11.

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

DNV GL No	Document	Doc. Ref. No.	Date/Rev.
30	Datasheet: SM87BG PB	6DS015	09/14 / V
31	Manual: Technical-Manual for SM87BG PB - 6DS015	TM147	08/15 / F
32	Report: AXIS, IEC 60945 test report Cooper MEDC SM87BG PB	AXTF14013-02	2015-11-24 /3
33	SM87PB benign assesment		2010-07-05
	Report: TA Initial Assessment of Cooper MEDC Limited		2016-03-02

Tests carried out

Applicable tests according to Class guideline DNVGL-CG-0339, November 2016.
Applicable tests for protected equipment according to IEC 60945, 4th edition (2002).

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

Job Id: **262.1-021305-1**
Certificate No: **TAA00000X2**

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE