



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. MED-B-4226

This Certificate consists of 2 pages

This is to certify that the product

Rudder angle indicator

with the type designation(s)

SIFAM Type 24MD, 34MD & 44MD and SIFAM Type 29PMD, 39PMD & 49PMD

Manufactured by

Sifam Instruments Limited

DEVON TQ2 7AY, United Kingdom

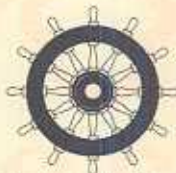
is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/4.20 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulations V/19.2.5.4, 2000 HSC Code, IMO Resolution A.694 (17)

Further details of the product and conditions for certification are given overleaf.

Place and date

Høvik, 2007-03-29

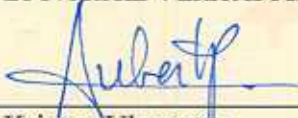
for DET NORSKE VERITAS AS



Notified Body No. 0575

This Certificate is valid until

2012-03-29

for 
Kristen Ulveseter
Manager, MTPNO370
Department Systems & Components

DNV local office:
DNV Falmouth


Thomas Rørvik Jacobsen
Surveyor




Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.

The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

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CERTIFICATE NO. MED-B-4228

This Certificate consists of 2 pages

This is to certify that the
Pitch indicator

with type designation(s)

**SIFAM Type 24MD, 34MD & 44MD and SIFAM Type 29PMD,
39PMD & 49PMD**

Manufacturer

Sifam Instruments Limited

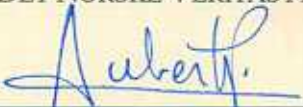
DEVON TQ2 7AY, United Kingdom

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/4.22 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulations V/19.2.5.4, IMO Resolution A.694 (17)

Further details of the product and conditions for certification are given overleaf.

Place and date
Høvik, 2007-03-29

for DET NORSKE VERITAS AS


for Kristen Ulveseter
Manager, MTPNO370
Department Systems & Components



Notified Body No. 0575

DNV local office:
DNV Falmouth

This Certificate is valid until
2012-03-29


Thomas Rørvik Jacobsen
Surveyor




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Cert. No.: MED-B-4228
Job Id.: 344.1-000828-1
Item No.: A.1/4.22

Product description

Indicators: Type 24MD, 34MD & 44MD and Type 29PMD, 39PMD & 49PMD.

Applications/Limitations

- The indicators are without illumination.

Type Examination documentation

- Presentor documentation
- Director documentation
- Technical report no 2001-3261

Tests carried out

- IEC 60945 (2002)

Marking of product

The product to be marked with manufacturer's name or trademark and type and serial number identification.

Mark of conformity

The manufacturer is allowed to affix the Mark of Conformity  according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who shall issue a Certificate of Conformity.

END OF CERTIFICATE





DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. MED-B-4227

This Certificate consists of 2 pages

This is to certify that the product
Propeller revolution indicator

with the type designation(s)

**SIFAM Type 24MD, 34MD & 44MD and SIFAM Type 29PMD,
39PMD & 49PMD**

Manufactured by

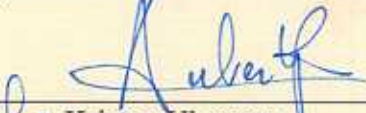
Sifam Instruments Limited
DEVON TQ2 7AY, United Kingdom

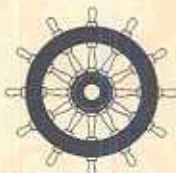
is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/4.21 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulations V/19.2.5.4, IMO Resolution A.694 (17)

Further details of the product and conditions for certification are given overleaf.

Place and date
Høvik, 2007-03-29

for DET NORSKE VERITAS AS

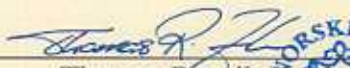

for Kristen Ulveseter
Manager, MTPNO370
Department Systems & Components



Notified Body No. 0575

DNV local office:
DNV Falmouth

This Certificate is valid until
2012-03-29


Thomas Rørvik
Surveyor



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The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: MED-B-4227
Case No.: 344.1-000827-1
File No.: A.1/4.21

Product description

Indicators: Type 24MD, 34MD & 44MD and Type 29PMD, 39PMD & 49PMD.

Applications/Limitations

- The indicators are without illumination.

Type Examination documentation

- Presentor documentation
- Director documentation
- Technical report no 2001-3261

Tests carried out

- IEC 60945 (2002)

Marking of product

The product to be marked with manufacturer's name or trademark and type and serial number identification.

Mark of conformity

The manufacturer is allowed to affix the Mark of Conformity  according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

- Module D: The quality system for production and testing shall be approved by the Notified Body.
- Module E: The quality system for inspection and testing shall be approved by the Notified Body.
- Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

END OF CERTIFICATE





DET NORSKE VERITAS

QS - CERTIFICATE OF ASSESSMENT - EC

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. MED-D-923

This Certificate consists of 2 pages

This is to certify that the quality system for the
Navigation equipment
with type designation(s) as specified in the appendix to this certificate

Manufacturer

Sifam Instruments Limited
DEVON TQ2 7AY, United Kingdom

is found to comply with the requirements applicable to it.

The quality system for the product, defined in Annex A.1, Item No. A.1/4 has been assessed with respect to the procedure of conformity assessment described in Annex B, Module D in the directive.

Limitations:

Modifications made to the quality system shall immediately be reported to Det Norske Veritas AS in order to examine whether this certificate remains valid. Annual periodical audits will be held to verify the validity of the certificate.

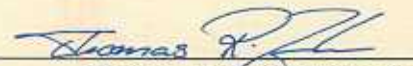
Place and date
Høvik, 2007-03-29
for DET NORSKE VERITAS AS


for Kristen Ulveseter
Manager, MTPNO370
Department Systems & Components



Notified Body No.: 0575

This Certificate is valid until
2012-03-29


Thomas Rørvik Jacobsen
Surveyor

DNV local office:
DNV Falmouth



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Cert. No.: **MED-D-923**
Job Id.: 344.1-000756-1
Item No.: A.1/4

APPENDIX, REV. NO. 0

QS - Certificate of Assessment - EC, Certificate No. MED-D-923

Type designation	EC Type-Examination Certificate No.	Expiry date	DNV QS Assessment Report dated
SIFAM Type 24MD, 34MD & 44MD and SIFAM Type 29PMD, 39PMD & 49PMD	MED-B-4226	2012-03-29	2006-12-31
	MED-B-4227	2012-03-29	2006-12-31
	MED-B-4228	2012-03-29	2006-12-31

The manufacturer complies with the Council Directive 96/98/EC on Marine Equipment and is allowed to affix the Mark of Conformity followed by the DNV identification number 0575 and the two last digits of the number of the year in which the product is produced.

Example:  0575/07

The manufacturer shall issue a Declaration of Conformity for each product with reference to the EC Type-Examination Certificate and this QS – Certificate of Assessment – EC.

Place and date
Høvik, 2007-03-29


Thomas Rørvik Jacobsen
Surveyor





Cert. No.: MED-B-4226
Case No.: 344.1-000826-1
File No.: A.1/4.20

Product description

Indicators: Type 24MD, 34MD & 44MD and Type 29PMD, 39PMD & 49PMD.

Applications/Limitations

- The indicators are without illumination.

Type Examination documentation

- Presentor documentation
- Director documentation
- Technical report no 2001-3261

Tests carried out

- IEC 60945 (2002)

Marking of product

The product to be marked with manufacturer's name or trademark and type and serial number identification.

Mark of conformity

The manufacturer is allowed to affix the Mark of Conformity  according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

- Module D: The quality system for production and testing shall be approved by the Notified Body.
- Module E: The quality system for inspection and testing shall be approved by the Notified Body.
- Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

END OF CERTIFICATE

