

Ship approvals and installation instructions

PLICSCOM

DNV - TAA000019V

CCS - HB23PTB00010_18

RINA - ELE359022XG

ClassNK - TA18214M

LR - 19/20054



Document ID: 57493



VEGA



TYPE APPROVAL CERTIFICATE

Certificate No:
TAA000019V
Revision No:
2

This is to certify:
That the display and adjustment module

with type designation(s)
PLICSCOM.X B/W
PLICSCOM(*)X B/W

Issued to
VEGA Grieshaber KG
Schiltach, Germany

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location classes:

Temperature D
Humidity B
Vibration A
EMC B
Enclosure A

Issued at **Hamburg** on **2022-05-04**
This Certificate is valid until **2027-07-11**.
DNV local station: **Augsburg**

for **DNV**

Approval Engineer: **Dariusz Lesniewski**

Joannis Papanuskas
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.

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Form code: TA 251

Revision: 2021-03

www.dnv.com

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Job Id: 262.1-024897-2
 Certificate No: TAA000019V
 Revision No: 2

Product description

Display and adjustment module PLICSCOM.X B/W or PLICSCOM(*)X B/W

- B with lighting
- W with Bluetooth, magnetic pen operation
- (*) 1 or 2-digit alphanumeric for specific customers

Place of manufacture

VEGA Grieshaber KG
 Am Hohenstein 113
 77761 Schiltach
 GERMANY

VEGA Americas, Inc.
 4241 Allendorf Drive
 Cincinnati, OH 45209
 USA

Application/Limitation

Use for measured value indication, adjustment and diagnostic for instruments of VEGA plics® family, mounted in the respective sensor housing.

Radio licenses for wireless Bluetooth communication for use in countries of EU, EFTA, USA and Canada.

Approval Conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, 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 rules for classification of ships PL4 Ch.9 Control and monitoring systems.

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021

Marking of product

The products to be marked with:

Manufacturer name	VEGA
Model name	PLICSCOM.x B/W
Serial number	xxxxxxx
Hardware version	HW 1.12.0
FCC/IC approvals	FCC ID: P14BL600 IC: 1931B-BL600
Ex approvals	TUV15ATEX 161127 U IECEx TUN 16.0002 U

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



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
HB23PTB00010_18

型式认可证书
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

VEGA Grieshaber KG

地址/Address

Am Hohenstein 113, D-77761 Schiltach, Germany

产品名称/Product

显示与调整模块
Display and adjustment module
电工仪表
Electric Meter

附加标志/Notations

无/Nil.

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》(2022)及其变更通告 第4篇第1章, 第7篇第2章
Part Four Chapter 1, Part Seven Chapter 2 of China Classification Society Rules for Classification of Sea-Going Steel Ships 2022 and its Change Notices

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

产品明细/Product Description

电工仪表/Electric Meter (M0001)

名称/Name	属性(值)/Value	单位/Unit
产品名称/Product Name	Display and adjustment module	
型号/Type	Plicscom	
规格/Specification	see additional pages	

证书有效期至/This Certificate is valid until 2027年04月01日/ Apr. 01,2027

发证机构/Issued by 中国船级社 汉堡分社
CHINA CLASSIFICATION SOCIETY Hamburg Branch

签发日期/Date 2023年03月22日
Mar. 22,2023

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Form No. T01

联系方式/Contact Us: 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)

UTN:P023-06696599



第1页共3页/Page 1 of 3

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No.: NP20PPP00881

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No.: see additional pages
试验报告日期/ Test Report Date:

认可后的产品检验方式/ Method of Product Inspection after Approval

按照规范只认可不进行产品检验的产品/The product approved only in term of the rules;
认可后的产品检验由制造厂按本社批准的产品检验计划进行检验, 经检验合格后由制造厂签发合格证明, 并连同该产品的本社认可证书复印件一并交付用户, 制造厂对产品符合公约、法规、本社规范和本社认可的标准规定负责。
After approval, product inspection should be carried out by the Manufacturer in accordance with the product inspection scheme approved by the Society. Upon satisfactory inspection, and the Quality Certificate issued by the Manufacturer should be provided to the purchaser together with the copy of the approval certificate issued by the Society. The manufacturer should take responsibility for the product being in compliance with the convention, statutory regulation, the Society rules and the standard accepted by the Society.

认可保持条件/ Maintenance Requirements of Approval

- 型式认可后, 如果产品及其重要零部件的设计、所用材料或制造方法有所改变, 且影响到产品的主要特性、特征; 或产品的性能指标有所更改, 且超过认可的范围, 则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查, 其结果应能证实仍符合认可条件。
After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.
- 工厂的质量管理体系应保持有效运行, 并且与认可时一致。如果质量管理体系发生改变, 应经原体系认证机构审核并报本社批准。
The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.
- 认可证书有效期内, 如果出现可能导致本社取消认可的情况, 工厂应及时采取有效的纠正措施。
Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.
- 在认可证书有效期内, 本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核, 以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。
Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.
- 如果属于获得型式认可 B 模式证书, 且无需颁发船用产品证书/等效证明文件的情况, 证书获得者应接受本社每年一次的定期审核, 定期审核日为认可证书期满之日对应的每一周年日, 检查工作应在周年日的前后三个月内进行。
If belong to the situation of the product has type approval mode B certificate, and marine product certificate/equivalent document is not necessary, those who have obtained the certificate should be subject to periodical audit every year. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

备注/Remarks

本证书由原型式认可证书 (No. HB20PTB00041) 换新并替代原证书。
This certificate is renewed from and supersedes the previous Type Approval Certificate No. HB20PTB00041.

本社已审核了产品厂无石棉声明, 但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。

The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society.
However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

中国船级社汉堡分社
CCS Hamburg Branch

注: 本证书含有附页, 共1页
Note: The certificate is attached with additional 1 page(s)

1. Product Description:

Name	Display and adjustment module
Type	Plicscom
Power source	Depending on corresponding VEGA plics®-Sensor Family
Description	Only applicable as part of VEGA plics®-Sensor Family
Accuracy	Depending on corresponding VEGA plics®-Sensor Family
Measure Range	Depending on corresponding VEGA plics®-Sensor Family
Firmware	1.xx
Degree of protection	Up to IP40
Explosion-Proof marking	It has IECEx etc. certificate, such as follow: Ex ia IIC Ga or Ex ib IIC Gb or Ex ic IIC Gc IECEX Certificate of Conformity No.: IECEX TUN 16.0002U Issuing Body: TUEV NORD CERT GmbH

2. Approval Test Report

No	Test Report No.	Test Report Date	Laboratory / Address
1	17-9023	2017.06.02	PAConsult GmbH / Birkenau 3, 22087 Hamburg, Germany
2	1701-0012401R01	2017.05.09	Hansecontrol Zertifizierungsgesellschaft GmbH / Schleidenstrasse 1, 22083 Hamburg, Germany
3	1701-0012401R02	2017.05.09	
	2101-0046104R01B	2021.04.28	

3. Limitation/Application:

Please see production operating instructions.

The Ex-Proof parameters of the approved products originate from Ex- Certificate received from manufacturer, not approved by CCS.

The above mentioned devices can be installed with an Ex-approval as well as without Ex-approval according to the field of application.

If the device is used for explosive-proof purposes, the explosion-proof certificate is essential, and the Type Approval Certification will be invalid if the Ex-approved products do not hold valid Ex Certificate.

For Ex-devices it is absolutely necessary to affix the above ignition protection label to the device.

Whereas an application in non-explosive area does not require an Ex-certificate.




TYPE APPROVAL CERTIFICATE
No. ELE359022XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Alarm, monitoring and control system
<i>Type</i>	PLICSCOM 3 series
<i>Applicant</i>	VEGA GRIESHABER KG AM HOHENSTEIN 113 77761 Schiltach GERMANY
<i>Manufacturer</i>	VEGA GRIESHABER KG
<i>Place of manufacture</i>	AM HOHENSTEIN 113 77761 Schiltach GERMANY
<i>Reference standards</i>	Rules for the Classification of Ships- Part C - Machinery, Systems and fire protection - Ch.3 ; Sect. 6, Tab.1

Issued in **Hamburg** on **May 15, 2023**. This Certificate is valid until **May 14, 2028**


RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53551
Fax +39 010 5351000

TYPE APPROVAL CERTIFICATE

No. **ELE359022XG**

Enclosure - Page 1 of 1

PLICSCOM 3 series

Product description:

The **PLICSCOM 3** series are indicating/adjustment modules consists of a display with full dot matrix as well as four keys for adjustment. The instrument is optionally equipped with Bluetooth functionality.

The pluggable display and adjustment module **PLICSCOM** is used for measured value indication, adjustment, and diagnostics for the following instruments of the **VEGA plics®** family:

- VEGABAR series
- VEGACAL series
- VEGADIF series
- VEGADIS series
- VEGAFLEX series
- VEGAPULS series
- VEGASON series

Order code:

PLICSCOM.X B/W or PLICSCOM(*) .X B/W

B - with lightning

W - with Bluetooth, magnetic pen operation

(*) 1 or 2-digit alphanumeric for specific customers

Technical data:

Power supply: - directly via the respective sensor or the external display and adjustment unit.

Hardware version: 1.1x.x

Software version: 1.1x.x

Documents:

Operating instruction: - 36433-EN-180221 dated 21.02.2018

Drawings: - GE3626-02; GE3627-02; GE3628;

52134-DE-PLICSCOM-TUN-15-ATEX-161127-U;

52136-EN-IEC-Ex-PLICSCOM-IECEX-TUN-16.0002-U;

Test reports:

Hansecontrol Zertifizierungsgesellschaft mbH: - 1701-0012401R01 dated 09.05.2017;

- 1701-0012401R02 dated 09.05.2017; -2101-0046104R01B dated 28.04.2021

Paconsult GmbH: - 17-9023 dated 02 June 2017;

Remarks:

- The products fulfill **EC-Code: 3a1/41**.

- Wireless data communication used for vessel services of category III system will be specially considered provided the use of the wireless data communication results in an improvement in the safety of the vessel, compared to wired data communication.

Hamburg May 15, 2023



RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53551
Fax +39 010 5351000



NIPPON KAIJI KYOKAI

TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA18214M

This is to certify that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society’s Rules.

This certificate is issued to

Manufacturer:	VEGA Grieshaber KG
Place of Manufacturing:	Am Hohenstein 113, 77761 Schiltach, Germany
Product description:	Display and adjustment module
Model:	PLICSCOM 3

Approval No.:	18A010
Valid until:	20 May 2023

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 21 May 2018.

T. Shimada
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

NIPPON KAIJI KYOKAI

Attached sheet -1/2 to the Certificate No. TA18214M

Specification & documents:

1. Product description:

Display and adjustment module PLICSCOM.X B/W or PLICSCOM(*).X B/W

B: with lighting

W: with Bluetooth, magnetic pen operation

(*): 1 or 2-digit alphanumeric for specific customers

2. Particulars:

Power supply: 24VDC

Hardware version: HW 1.12.0

Ex approvals: TÜV15ATEX 161127 U

IECEX TUN 16.0002 U

3. Documentation and Test Reports:

Drawings: SB1503-1-02-0, GE3627-02, GE3626-02, SB1497-1-00-0, GE3628

Operating Instructions: 36433-EN-180221

Test Report:

Paconsult test report No. 17-9023 (02 June 2017)

Paconsult test report No. 08-2268-Revision 1 (25 February 2009)

Hansecontrol test report No. 1701-0012401R01 (09.05.2017)

Hansecontrol test report No. 1701-0012401R02 (09.05.2017)

VEGA test report (04.04.2017)

- To be continued -

NIPPON KAIJI KYOKAI

Attached sheet -2/2 to the Certificate No. TA18214M

Test items & approval conditions:

1. Test items:

(Applied testing items are marked with X.)

ENVIRONMENTAL TESTS		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 70°C × 16 hours)		X
Damp heat test		X
Vibration test (Acceleration ±0.7g × 1.5 hours)		X
Inclination test		--
Cold test (Temperature -40°C × 16 hours)		X
Salt mist test Note (1)		X
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

Note (1) The salt mist test is carried out with a level sensor "VEGAPULS 62".

2. Approval condition:

Nil

- The End -





Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER	VEGA Grieshaber KG Am Hohenstein 113 77761 Schiltach Germany
DESCRIPTION	Indication and operating module PLICSCOM
TYPE	PLICSCOM.X B/W PLICSCOM(*).X B/W B with lightning W with Bluetooth, magnetic pen operation (*) 1 or 2-digit alphanumeric for specific customers
APPLICATION	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2018.
ADDITIONAL TESTS	Low temperature (-40°C / 16 hrs)
STANDARD	Manufacturer's specification
RATINGS	Power supply via suitable VEGA device
OTHER CONDITIONS	Ratings for application in hazardous areas are to be obtained from the applicable Ex Certificates.
Certificate No.	19/20054
Issue Date	30 August 2019
Expiry Date	29 August 2024
Sheet	1 of 2



Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

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PLACES OF PRODUCTION VEGA Grieshaber KG
 Am Hohenstein 113
 77761 Schiltach
 Germany

VEGA Americas, Inc.
 4241 Allendorf Drive
 Cincinnati, OH 45209
 USA

The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ETS 38698-19 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No. 19/20054
Issue Date 30 August 2019
Expiry Date 29 August 2024
Sheet 2 of 2



Thorsten Wolff
 Hamburg Technical Support Office
 Lloyd's Register EMEA

Lloyd's Register EMEA
 71 Fenchurch Street, London EC3M 4BS

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Design Appraisal Document

Lloyd's Register EMEA
 Hamburg Technical Support Office
 Überseeallee 10
 20457 Hamburg
 Telephone +49 (0)40 34 97 00 10-100
 E-mail: hamburg-technical-support@lr.org

Date
30 August 2019

Please quote this reference number on all future communications
HPC1962001/38698-19/TW/EBO

**THE LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 2017
 ISSUED TO: VEGA GRIESHABER KG
 FOR: INDICATION AND OPERATING MODULE PLICSCOM
 TYPE APPROVAL CERTIFICATE NO. 19/20054**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register's Type Approval System Procedure TA14 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Unnumbered	Application for Type Approval	26.11.2018
HPC1962001/37875-19/TW/KW	Request for Marine Services – Type Approval	25.02.2019
52134-DE-160418	Sicherheitshinweise Anzeige- und Bedienmodul PLICSCOM	18.04.2016
52136-EN-160418	Safety instructions Display and adjustment module PLICSCOM	18.04.2016

TEST REPORTS

IECEX TUN 16.0002U	IECEX Certificate of Conformity	15.04.2016
		Issue No.: 0
TÜV 15 ATEX 161127 U	TÜV Nord Certificate of Conformity	18.03.2016
DE/TUN/ExTR16.0015/00	IECEX Test Report IEC 60079-0	11.03.2016
DE/TUN/ExTR16.0015/00	IECEX Test Report IEC 60079-11	11.03.2016
DE/TUN/ExTR16.0015/00	IECEX Test Report Cover	11.03.2016
17-9023	paconsult test report	02.06.2017
1701-0012401R01	hansecontrol test report	09.05.2017
1701-0012401R02	hansecontrol test report	09.05.2017

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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Document no: HTS/ETS 38698-19
 Issue number: 0
 Page 2 of 2

Date:
30 August 2019

Please quote this reference number on all future communications
HPC1962001/38698-19/TW/EBO

Appendix

DRAWINGS

GE3618	PLICSCOM 3	19.09.2016 Revision 01
GE3626-02	Bestückungsplan GE3626-02	12.09.2016
GE3627-02	Layout PLICSCOM 3A	12.09.2016
GE3628	Bestückungsplan + Layout Hall-Sensor-Bedienfeld	14.12.2015
SB1497-1-00-0	Hall-Sensor-Bedienfeld	29.07.2015
SB1503-1-02-0	PLICSCOM3 (2 pages)	30.08.2016



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Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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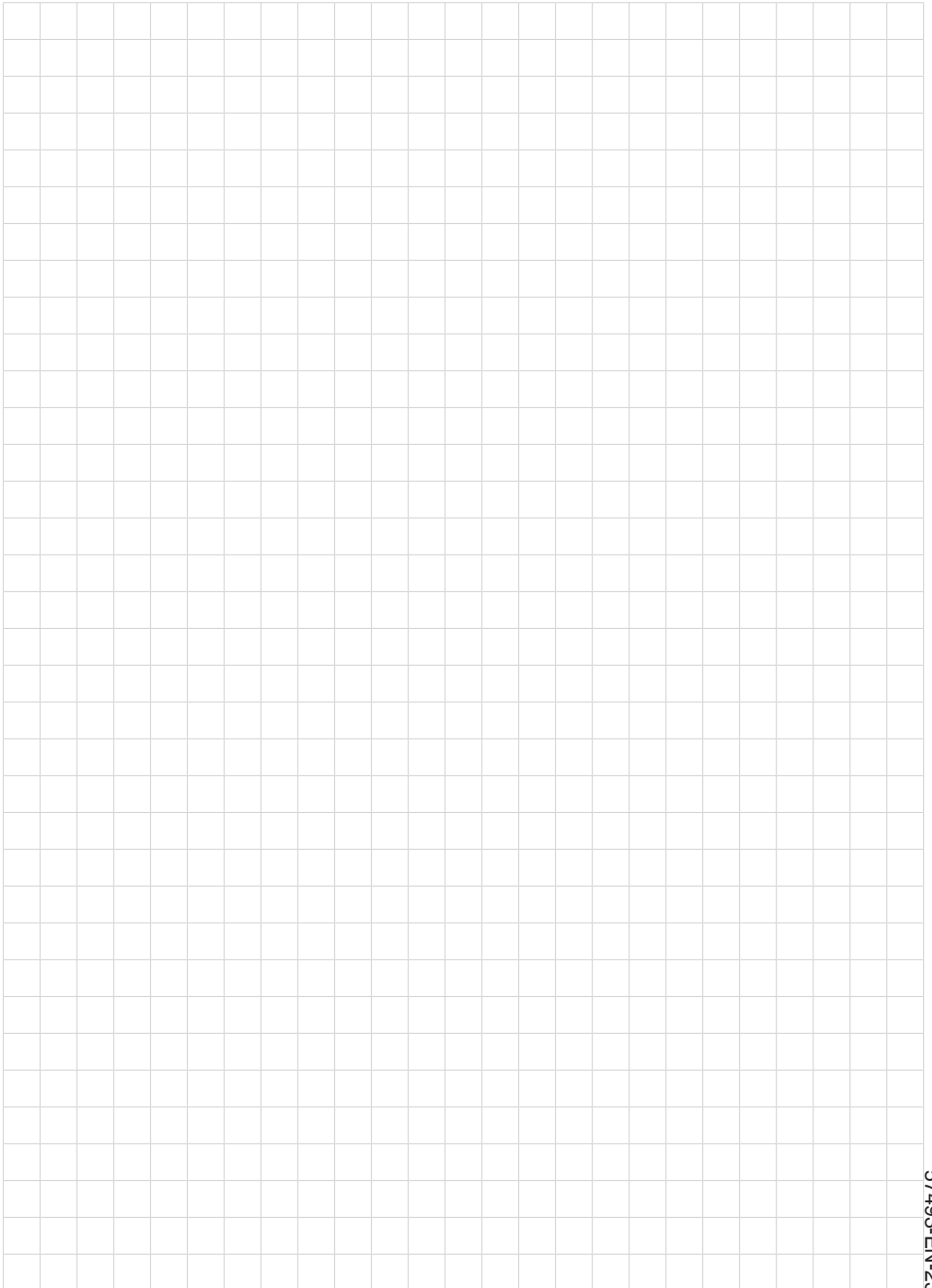
Form 6438MARREF (2016.05)

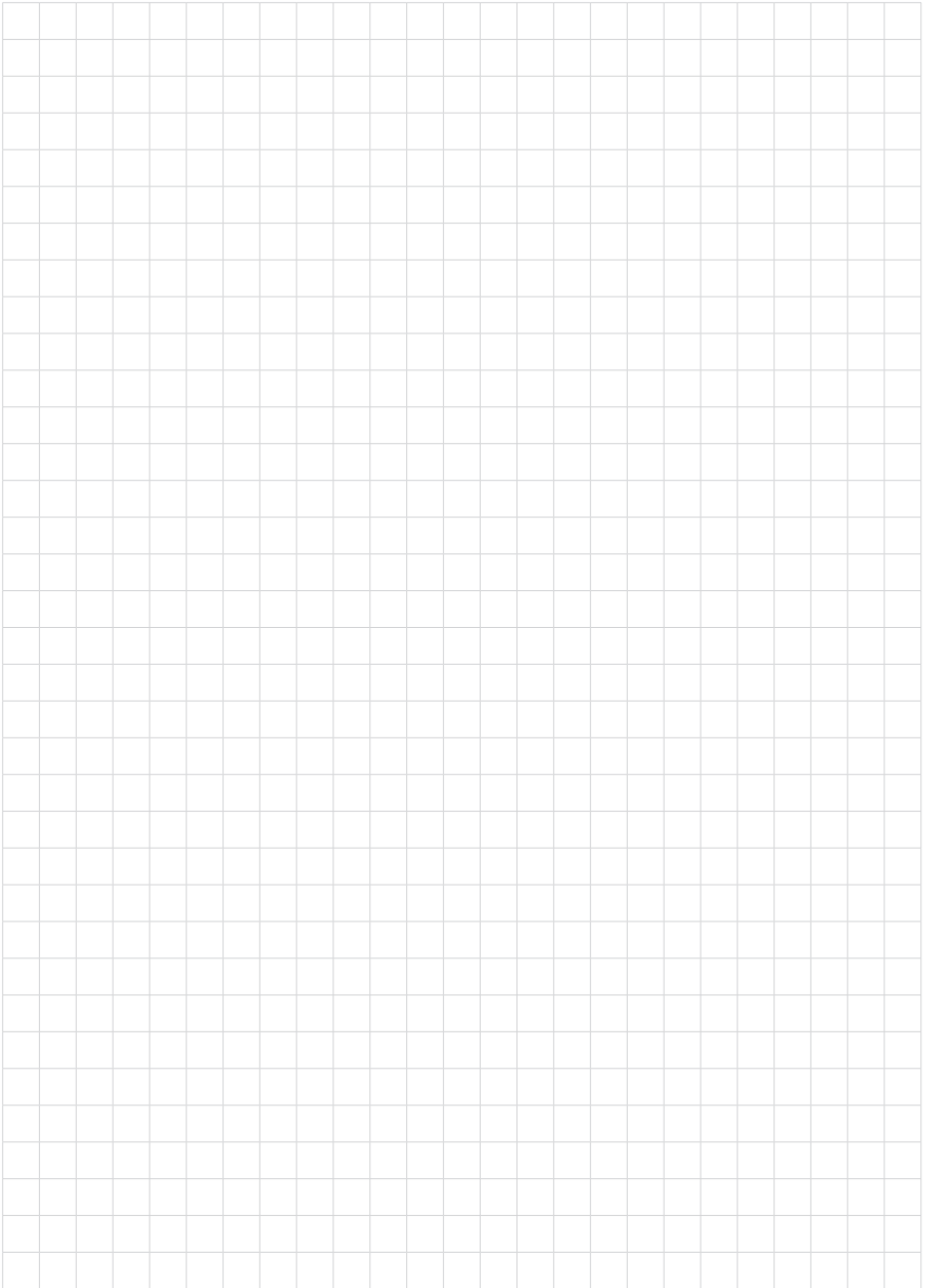
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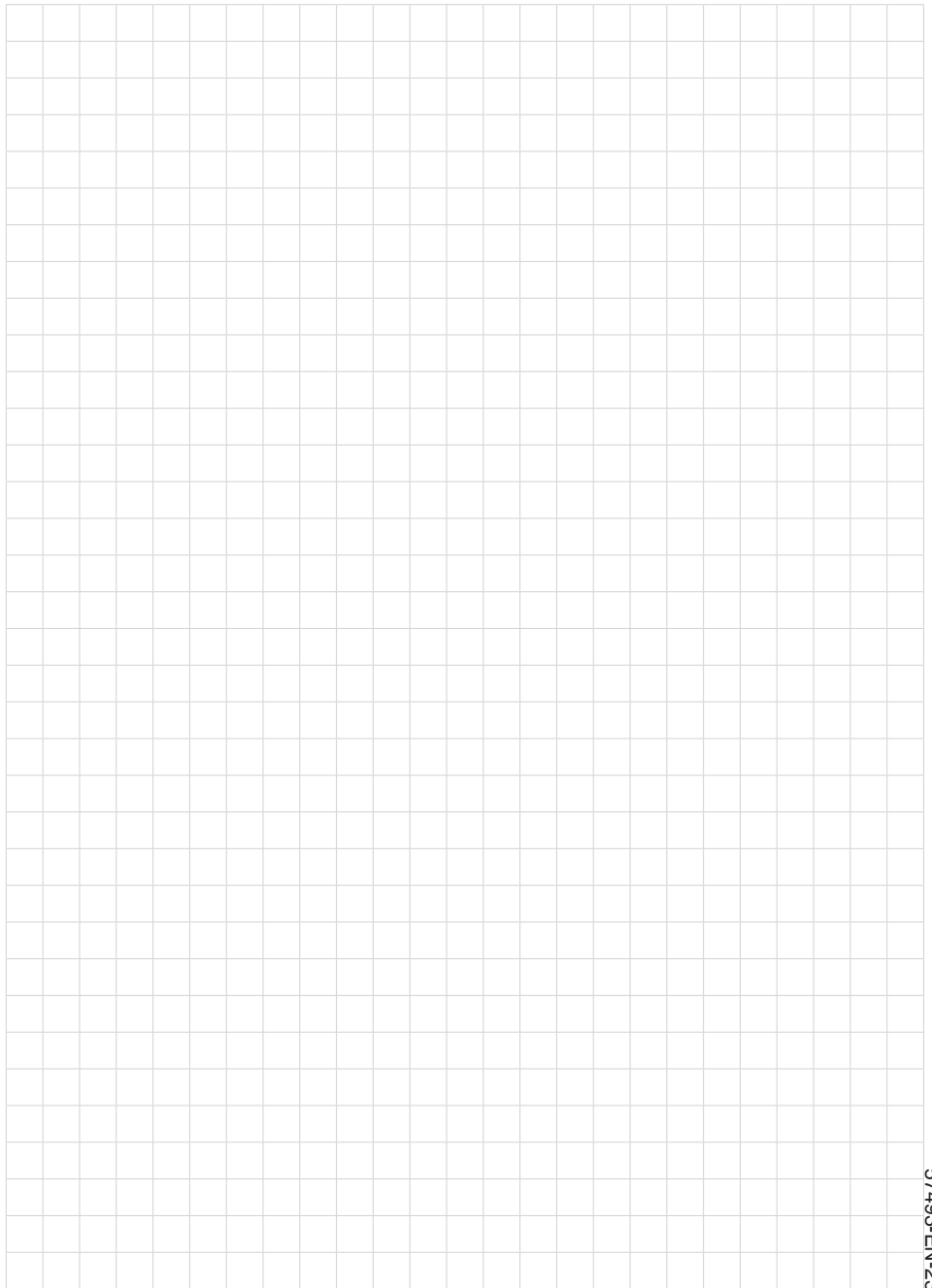
Part 3

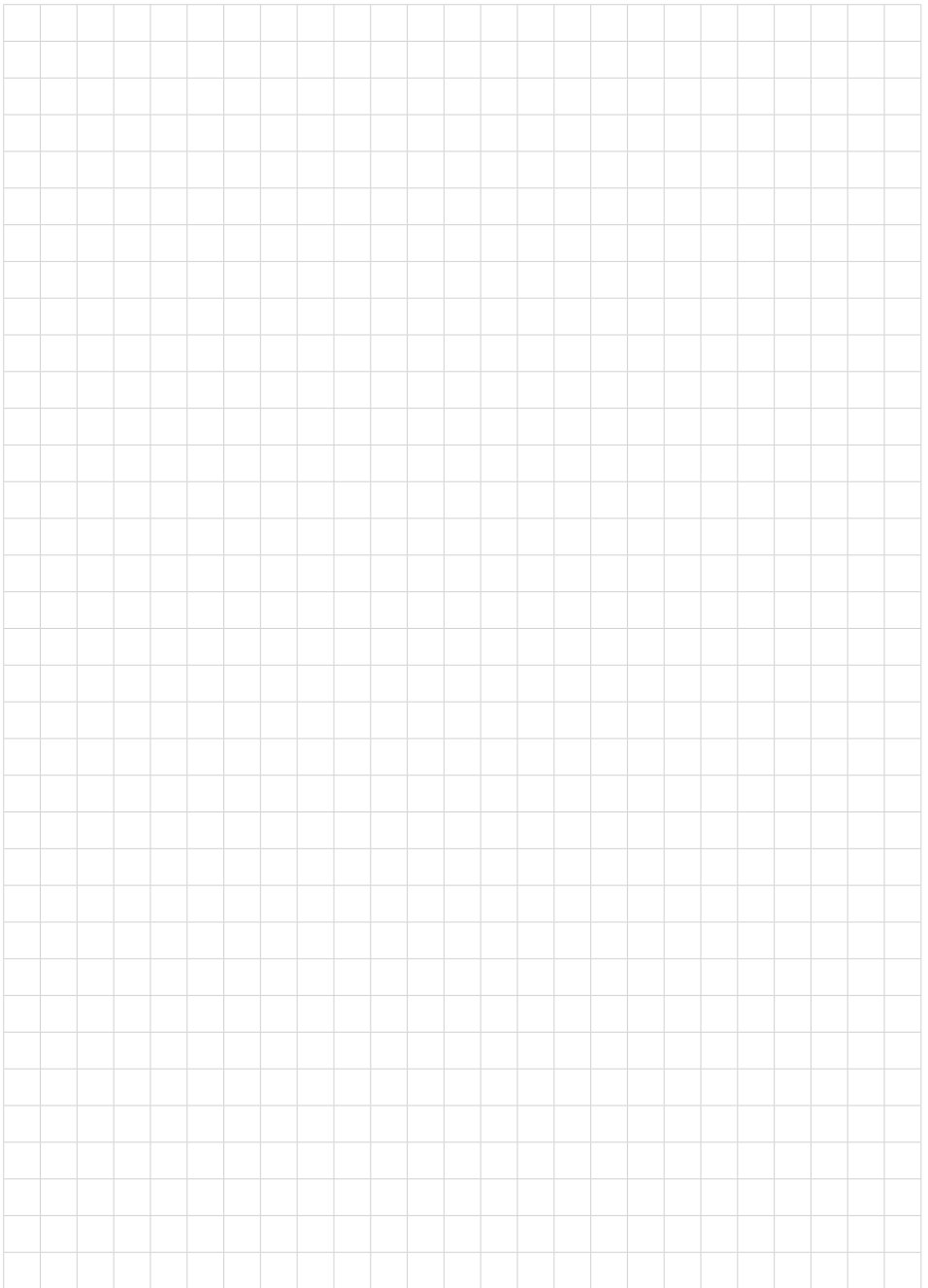
Transmitters/Transducers

Producer/Licence No.	Item Description	Technical Details	Category/Additional Tests	Remarks	Cert. No.
VEGA Grieshaber KG Am Hohenstein 113 77781 Schillach Germany	Indication and operating module PLICSCOM Types PLICSCOM(X)E/W PLICSCOM(P)X)E/W B with lightning W with Busstop, magnetic pen operation (*) 1 or 2-digit alphanumeric for specific customers	Power supply via suitable VEGA device	ENV1, ENV2, ENV3 (2018) Low temperature (-40°C / 16 hrs)	Expires on: 29 August 2024 Ratings for application in hazardous areas are to be obtained from the applicable Ex Certificates.	19/20054







A large grid of empty squares, intended for taking notes. The grid consists of 20 columns and 40 rows of small squares.

Printing date:

VEGA

All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.

Subject to change without prior notice

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