

# Ship approvals and installation instructions

**VEGAMET 624, 625**

**VEGASCAN 693**

DNV-GL - TAA00002T6

LR - LR2003313TA

ABS - 24-0024230-PDA

CCS - HB21PTB00050

RINA - ELE148524XG



Document ID: 30573



# VEGA



### TYPE APPROVAL CERTIFICATE

**This is to certify:**

**That the Measurement Converter**

with type designation(s)

**VEGAMET 624, 625, VEGASCAN 693**

Issued to

**VEGA Grieshaber KG**  
**Schiltach, Germany**

is found to comply with

**DNV GL 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 GL.**

#### Location classes:

**Temperature B**  
**Humidity B**  
**Vibration A**  
**EMC B**  
**Enclosure A**

Issued at **Hamburg** on **2020-06-05**

This Certificate is valid until **2025-06-04**.

DNV GL local station: **Augsburg**

Approval Engineer: **Dariusz Lesniewski**



for **DNV GL**  
Digitally Signed By:  
Papanuskas, Joannis

**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.

**LEGAL DISCLAIMER:** Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2020-02

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Job Id: **262.1-033352-1**  
 Certificate No: **TAA00002T6**

## Product description

Signal conditioning instrument, series VEGAMET 624 Type MET624...  
 VEGAMET 625 Type MET625...  
 VEGASCAN 693 Type SCAN693...

### Main characteristics

Power supply	24V DC rated (range 20...250V DC)
Signal inputs	MET624: 1x 4...20mA / HART, 2-wire, sensor power supply MET625: 2x HART, 2-wire, sensor power supply SCAN693: 15x (Ex-version 5x) HART, 2-wire, sensor power supply (shielded cable for HART communication to be used)
Outputs	1x signal fault relay 3x current output 3x operating relay (for MET624/625 only)
Communication interface (optional)	RS232- or Ethernet-Interface
Graphic LC-display	50x25mm with background lighting
Indication LEDs	2x green, 3x yellow, 1x red
Adjustment	by 4x keys in front for menu adjustment by PACTware with VEGA-DTM
Mounting	wall mounting with adapter plate
Degree of protection	IP30 (instrument) / IP20 (plug-in socket)
Software version	V1.xx
Ex-proof protection	as the certificate TÜV 03 ATEX 2269

## Application/Limitation

EMC in the range 2 GHz to 6 GHz according to DNVGL-CG-0339, December 2019 has not been verified.  
 EMC up to 6 GHz must additionally be documented for installation on ships contracted for construction on or after 2022-01-01.

## Type Approval documentation

Test reports: paconsult 421-04, 0779-05A  
 Test reports: EMV Services 04/4080-11; EMV Services 04/4080-10  
 Test reports: VEGA MET624-1.9-F2-1; VEGA MET624-1.3-F2-1,-2  
 Test reports: HanseControl 08-L-00709(11)-01, 05-L-00954-01  
 Certificate: TÜV 03 ATEX 2269  
 Software documentation  
 Technical drawings; Circuit diagrams; Product Information 29251-EN-050125  
 Type approval assessment report issued at Augsburg on 2020-05-26

## Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, December 2019.

## Marking of product

The products to be marked with:

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

## 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:



Job Id: **262.1-033352-1**  
Certificate No: **TAA00002T6**

- 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



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Certificate No: LR2003313TA  
Issue Date: 06/05/2020  
Expiry Date: 16/03/2025

## 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.

**Manufacturer** Vega Grieshaber KG

**Address** Am Hohenstein 113, Schiltach, 77761, Germany

**Type** Transmitters/Transducers

**Description** Signal Conditioning Instrument

MET 624. a M b  
MET 625. a M b  
SCAN 693. a M b

a = X without Ex approval  
C ATEX II (1) G [Ex ia] II C, ATEX II

b = R RS 232 - connection  
E Ethernet - connection  
X without (for VEGAMET 624/625)

**Trade Name** VEGAMET 624/625 and VEGASCAN 693

**Application** Marine applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2002.

**Thorsten Wolff**  
Senior Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS,  
United Kingdom

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EN60730-1

30573-EN-240715



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Expiry Date: 16/03/2025

Type Approval Certificate

Specified Standard	Manufacturer's specification
Ratings	Power supply: 24 VDC  Signal input: MET 624: 1x 4..20mA/HART, 2-wire, sensor power supply MET 625: 2x HART, 2-wire, sensor power supply SCAN 693: 15x (Ex-version 5x) HART, 2-wire, sensor power supply  Output: 1x signal fault relay, 3x current output, 3x operating relay (for MET 624/625 only)
Additional Tests	Low temperature (-25°C/16 hours)
Other Conditions	Ratings for application in hazardous areas are to be obtained from certificate No. TÜV 03ATEX 2269. Shielded cables are to be used for HART communication. Equipment has to comply with IACS E10 Rev.7 when intended to be installed on ships contracted for construction on or after 1 January 2022.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. HTS/ETS 39924-20/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

71 Fenchurch Street, London, EC3M 4BS,  
United Kingdom

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 Issue Date: 06.05.2020  
 Expiry Date: 16.03.2025  
 Reference: HTS/ETS 39924-20/TW

**LLOYD'S REGISTER TYPE APPROVAL – DESIGN APPRAISAL DOCUMENT**  
**ISSUED BY: HAMBURG TECHNICAL SUPPORT OFFICE (HPC1562054)**  
**ISSUED TO: VEGA GRIESHABER KG**  
**FOR: SIGNAL CONDITIONING INSTRUMENT**  
**TYPES VEGAMET 624/625 AND VEGASCAN 693**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System Procedure TA14 Version 03 (July 2017) and this Design Appraisal Document forms part of the Certificate.

**APPROVAL DOCUMENTATION**

Unnumbered	Type Approval Application Checklist	30.03.2020
HPC1562054/39915-20/ TW/KW	Request for Marine Services – Type Approval	06.05.2020
HPC1862096	Production Quality Assessment Form	11.03.2019
HTS/ETS 31560-15	Marine Design Appraisal Document for Certificate No. 05/20019 (E3)	23.04.2015
05/20019 (E3)	LR Type Approval Certificate	23.04.2015
28969	Operating Instructions VEGAMET 624	04.09.2017
28970	Operating Instructions VEGAMET 625	04.09.2017
29252	Operating Instructions VEGASCAN 693	04.09.2017
SW0052	Overview of software versions VEGAMET 624	06/2016
SW0054	Overview of software versions VEGASCAN 693	06/2016



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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.

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Reference: HTS/ETS 39924-20/TW

*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 Lloyd's Register Type Approval System Procedure.*

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## Confirmation of Product Type Approval

**Company Name:** VEGA GRIESHABER KG

**Address:** PRODUCT COMPLIANCE & QMAM HOHENSTEIN 113 D-77761 SCHILTACH Germany

**Product:** Level Gauge, Transmitter for Level Gauging Unit

**Model(s):** VEGAMET MET 624, MET 625 VEGASCAN SCAN 693

**Endorsements:**

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	24-0024230-PDA	10-JUL-2024	09-JUL-2029
Manufacturing Assessment (MA)	20-4249376	21-APR-2020	20-APR-2025
Product Quality Assurance (PQA)	NA	NA	NA

### Tier

3 - Type Approved, unit certification not required

### Intended Service

Signal conditioning for level measurement units for liquids and other substances on ACC, ACCU and ABCU classed vessels.

### Description

Graphic LC-Display with background lighting, indication LEDs and adjustment keys.

### Ratings

See attached document.

### Service Restrictions

- Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
- Certified-safe type versions with Marking: [Zone 0] [Ex ia] IIC ref. certificate IECEx-TUN-04-0013 are used for the intrinsically safe supply of two-wire sensors and for the safe galvanic separation of the intrinsically safe circuits from the non-intrinsically safe circuits and are to be installed in non-hazardous area.
- ATEX certified equipment is not to be installed in hazardous areas on U.S vessels unless it can be prove to have been tested to the applicable IEC 60079 series standards by an independent laboratory accepted by the U.S coast Guard. USCG notice 01-12 (February 7, 2012)

### Comments

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Each particular application and installation is to be specifically approved.

#### Notes, Drawings and Documentation

Drawing No. 1040471-EN-240604, Operating instructions VEGAMET 624

Drawing No. 1040472-EN-240604, Operating instructions VEGAMET 625

Drawing No. 1040473-EN-240604, Operating instructions VEGASCAN 693

Drawing No. SB1242\_1\_06, SCAN693-NT, Circuit diagram, Revision: 06

Drawing No. SB1214\_1\_06, MET624-D, Circuit diagram, Revision: 06

Drawing No. SB1215\_1\_03, Circuit diagram, Revision: 03

Drawing No. SB1211\_1\_08, MET624, Circuit diagram, Revision: 08

Drawing No. IECEx-TUN-04-0013, IECEx certificate, Revision: 2

Drawing No. E45329, SE100\_yellow-card

#### Test Reports

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Drawing No. 4080\_11\_VEGAMET 624, EMC test report, Testing Laboratory: EMV Services GmbH,  
Date: 09 September 2004

Drawing No. 4080\_10\_VEGAMET 625, EMC test report, Testing Laboratory: EMV Services GmbH,  
Date: 27 September 2004

Drawing No. 421-04, VEGAMET 625 climatic & vibration, Testing Laboratory: Paconsult, Date: 01  
November 2004

Drawing No. 05-0779-BE-VEGAMET 624, climatic & vibration, Testing Laboratory: Paconsult, Date: 29  
June 2005

Drawing No. 05-L-00955-01R\_EMV\_VEGAMET624EX, EMC test report, esting Laboratory:  
Hansecontrol, Date: 14 July 2005

Drawing No. 08-L-00711-01R, VEGASCAN 693 Ex, Test Reports - EMC(EMV), Testing Laboratory:  
Hansecontrol, Sample No:08-HW-00730-01, Date: 04.07.2008

Drawing No. 08-L-00709-01R, VEGASCAN 693, Test Reports - EMC(EM), Testing Laboratory:  
Hansecontrol, Sample No:08-HW-00729-01, Date: 03.07.2008

Drawing No. 08-2091-BE, VEGASCAN 693 (Ex & non Ex),Test Reports Climatic Strains, Testing  
Laboratory: Paconsult, Date: 29 July 2008

----- Reval. 2024-----

Drawing No. 2101-0137301R08\_A\_EMC, VEGAMET 625, EMC test report 6 GHz, Testing Laboratory:  
HansecontrolCert, Date: 10 August 2021

Drawing No. 2101-0137301R09\_A\_EMC, VEGASCAN 693, EMC test report 6 GHz,Testing Laboratory:  
HansecontrolCert, Date: 10 August 2021

Drawing No. 2101-0137301R10\_A\_EMC, VEGASCAN693 Ex, EMC test report 6 GHz, Testing

Certificate Number: 24-0024230-PDA

Laboratory: HansecontrolCert, Date: 11 August 2021

### Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 09/Jul/2029 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

### ABS Rules

2024 Marine Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-31.7, 4-8-3/1.11.1, 4-8-3/1.17, 4-9-9/13.1, 4-9-9/13.1

2024 Mobile Offshore Units Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-1/11, 4-3-1/15, 4-3-1/17

### International Standards

NA

### EU-MED Standards

NA

### National Standards

NA

### Government Standards

NA

### Other Standards

NA



*[Signature]*

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 12-Jul-2024 3:34

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and

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**Standards.**

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
HB21PTB00050

## 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

控制器和显示仪表  
Controller and display instruments  
电工仪表  
Electric Meter

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》（2021）及其修改通报第4篇第1章  
Chapter 1, Part Four of China Classification Society Rules for Classification of Sea-Going Steel Ships 2021 and its Amendments
2. 中国船级社《钢质海船入级规范》（2021）及其修改通报第7篇第2章  
Chapter 2, Part Seven of China Classification Society Rules for Classification of Sea-going Steel Ships 2021 and its Amendments

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	Controller and display instruments	
型号/Type	VEGAMET 624, 625 & VEGASCAN 693	



证书有效期至/This Certificate is valid until 2025年07月16日/Jul. 16, 2025

发证机构/中国船级社 汉堡分社  
Issued by CCS Hamburg Branch

签发日期 2021年09月17日  
Date Sep. 17, 2021

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体，必须同时使用。纸质证书每页均须由本社盖章方为有效。电子证书含数字签名方为有效。本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时，可向我社检验机构咨询。This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubtful about the authenticity of the certificate may inquire of the Society or its offices.

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:P021-10718471

**批准的图纸/Approved Drawings**

图纸批准号/ Drawings Approval No.: HB17A00018

**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**

1. 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.
2. 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.
3. 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.
4. 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.
5. 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. HB17T00024\_02) 换新并替代原证书。  
This certificate is renewed from and supersedes the previous Type Approval Certificate No. HB17T00024\_02.

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。

证书编号/Certificate No. **HB21PTB00050**

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2页  
Note: The certificate is attached with additional 2 page(s)

1. Product Description:

Name	Controller and display instruments
Type	VEGAMET 624
Power Source	24 ... 230 V DC / AC, 50/60 Hz (non-Ex version) 24 ... 65 V DC, 24 ... 230 AC, 50/60 Hz (Ex version)
Input	1 x 4 ... 20 mA/HART sensor input
Output	3 x 0/4 ... 20 mA current output 3 x operating relay 1 x fail safe relay 1 x Ethernet (optional) 1 x RS232 (optional)
Application	Measured value indication, simple control functions as well as remote enquiry of measured values for one 4 ... 20 mA/HART sensor, data transmission via Ethernet.
Degree of protection	IP30 (instrument) / IP20 (plug-in socket)
Software version	V1.xx
Explosion-Proof Marking	Zone 0, Ex ia IIC, Zone 20, Ex ia D IECEX Certificate of Conformity No.: IECEX TUN 04.0013 Issuing Body: TUEV Nord

Name	Controller and display instruments
Type	VEGAMET 625
Power Source	24 ... 230 V DC / AC, 50/60 Hz (non-Ex version) 24 ... 65 V DC, 24 ... 230 AC, 50/60 Hz (Ex version)
Input	2 x HART sensor input
Output	3 x 0/4 ... 20 mA current output 3 x operating relay 1 x fail safe relay 1 x Ethernet (optional) 1 x RS232 (optional)
Application	Measured value indication, simple control functions as well as remote enquiry of measured values for two HART sensor, data transmission via Ethernet.
Degree of protection	IP30 (instrument) / IP20 (plug-in socket)
Software version	V1.xx
Explosion-Proof Marking	Zone 0, Ex ia IIC, Zone 20, Ex ia D IECEX Certificate of Conformity No.: IECEX TUN 04.0013 Issuing Body: TUEV Nord

Name	Controller
Type	VEGASCAN 693
Power Source	24 ... 230 V DC / AC, 50/60 Hz (non-Ex version) 24 ... 65 V DC, 24 ... 230 AC, 50/60 Hz (Ex version)
Input	15 x HART sensor input
Output	1 x fail safe relay 1 x Ethernet (optional) or 1 x RS232 (optional)
Application	Measured value indication and remote enquiry of measured values for up to 15 HART sensor, data transmission via Ethernet.
Degree of protection	IP30 (instrument) / IP20 (plug-in socket)
Software version	V1.xx
Explosion-Proof Marking	Zone 0, Ex ia IIC, Zone 20, Ex ia D IECEX Certificate of Conformity No.: IECEX TUN 04.0013 Issuing Body: TUEV Nord

2. Approval Test Report

No	Test Report No.	Test Report Date	Laboratory / Address
1	2101-0137301R07A	2021.08.10	Hansecontrol Zertifizierungsgesellschaft GmbH / Schleidenstrasse 1, 22083 Hamburg, Germany
2	2101-0137301R08A	2021.08.10	
3	2101-0137301R09A	2021.08.10	
4	2101-0137301R10A	2021.08.11	
5	MET624-1.3-F2-1	2003.10.22	VEGA Grieshaber KG / Am Hohenstein 113, 77761 Schiltach, Germany
6	MET624-1.3-F2-2	2003.10.22	
7	MET624-1.9-F2-1	2003.11.13	
8	04/4080-10	2004.09.27	EMV Service GmbH & Co.KG / Harburger Schlossstrasse 6-12, 21079 Hamburg, Germany
9	04/4080-11	2004.09.09	
10	421-04	2004.11.01	PAConsult GmbH / Birkenau 3, 22087 Hamburg, Germany
11	0779-05A	2005.06.29	
12	08-2091	2008.07.29	
13	05-L-00954-01	2005.07.13	Pruefinstitut HANSECONTROL GmbH / Bannwarthstr. 5, 22179 Hamburg, Germany
14	05-L-00955-01	2005.07.14	
15	08-L-00709-01	2008.07.03	
16	08-L-00711-01	2008.07.04	

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. ELE148524XG

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>	<b>Indicating and signal conditioning instrument</b>
<i>Type</i>	<b>VEGAMET 624, VEGAMET 625, VEGASCAN 693</b>
<i>Applicant</i>	<b>VEGA GRIESHABER GMBH AM HOHENSTEIN 113 77761 Schiltach GERMANY</b>
<i>Manufacturer</i>	<b>VEGA GRIESHABER GMBH</b>
<i>Place of manufacture</i>	<b>AM HOHENSTEIN 113 77761 Schiltach GERMANY</b>
<i>Reference standards</i>	<b>Rules for the Classification of Ships - Part C - Machinery, Systems and fire protection - Ch.3, Sect.6, Tab.1.</b>

Issued in **HAMBURG** on **July 10, 2024**. This Certificate is valid until **July 9, 2029**

*Giuseppe Russo*

RINA Services S.p.A.  
Giuseppe Russo

This certificate consists of this page and 1 enclosure

**TYPE APPROVAL CERTIFICATE**  
**No. ELE148524XG**  
**Enclosure - Page 1 of 1**  
**VEGAMET 624, VEGAMET 625, VEGASCAN 693**

**Description:**

MET 624     a M b  
 MET 625     a M b  
 SCAN 693   a M b

a=     X     without connection  
          C     ATEX II (1) G [Ex ia] IIC, ATEX II (1) D [Ex iaD]  
               (further Ex Approvals may be provided by the manufacturer)

b=     X     without connection  
          R     RS 232 connection  
          E     Ethernet connection

Power supply: 24Vdc rated ( range 20 to 250Vdc)

**Signal inputs:**

MET 624:        1 x 4 ..20mA / HART , 2-wire , sensor power supply  
 MET 625:        2 x HART, 2-wire, sensor power supply  
 SCAN 693:       15 x (Ex-version 5x) HART, 2-wire, sensor power supply  
 (shielded cable for HART communication to be used)

**Outputs:**

MET 624 and MET 625:                    3 x current output; 3 x operating relay  
 MET 624 and MET 625 and SCAN 693:    1x signal fault relay

Communication interfaces : (optional) RS232 or Ethernet

Graphic LC-display: 50x25mm with background lighting

Indication LEDs: 2x green, 3x yellow, 1x red

Adjustment: by 4x keys in front for menu adjustment by pactware® with VEGA-DTM

Mounting: wall mounting with adapter plate

Degree of protection : IP 30 (instrument) / IP20 ( plug-in socket)

**Reference documents:**

Operating instructions: doc. n° 28969- EN- 041021, doc. n° 28970- EN- 041021, doc. n° 29252-EN-08-1212

**Test Reports:**

PANACONSULT Report n° 421-04 (01/11/2004)  
 EMV SERVICES Report n° EMV - 04/4080-10 (27/09/2004)  
 VEGA Report n° MET624-1.3-F2-1/2, MET624-1.9-F2-1  
 PACONSULT Report n° 08-2091 (29 July 2008)  
 HANSECONTROL Report n° 08-L-00709-01 (3 July 2008), 08-L-00711-01 (4 July 2008), 2101-0137301R08A (10 August 2021), 2101-0137301R09A (10 August 2021), 2101-0137301R10A (11 August 2021)

**HAMBURG July 10, 2024**

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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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