



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx BVS 11.0037 issue No.: 1
Status: Current
Date of Issue: 2012-01-05 Page 1 of 6
Certificate history:
Issue No. 1 (2012-1-5)
Issue No. 0 (2011-5-17)

Applicant: **VEGA Grieshaber KG**
Am Hohenstein 113
77761 Schiltach
Germany

Electrical Apparatus: Microwave barrier type VEGAMIP
Optional accessory:

Type of Protection: Equipment protection by type of protection "n", Equipment protection by encapsulation "m"

Marking: Ex nAmc IIC T1/T2/T3/T4 Gc VEGAMIP MPR61(*).AX****R*** VEGAMIP MPT61(*).AX****T***
Ex nA IIC T1/T2/T3/T4 Gc VEGAMIP MPR61(*).AX****T***

Approved for issue on behalf of the IECEx Certification Body: H.-Ch. Simanski
Position: Head of Certification Body

Signature: 
(for printed version)

Date: 5/1/12

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany





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Manufacturer: **VEGA Grieshaber KG**
Am Hohenstein 113
77761 Schiltach
Germany

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition: 4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-18 : 2009 Edition: 3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:
[DE/BVS/ExTR11.0056/01](#)

Quality Assessment Report:
[DE/TUN/QAR06.0002/04](#)



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EQUIPMENT(continued):

Parameters:

Transmitter

VEGAMIP MPT61(*).AX****T***

input

supply voltage

(terminals 1, 2 in the terminal compartment)

AC 20...253 V, 50/60Hz

DC 20... 72 V

power consumption

AC 1.8 VA

DC ca. 1.3 W

Receiver

VEGAMIP MPR61(*).AX****R***

input

supply voltage

(terminals 1, 2 in the terminal compartment)

AC 20...253 V, 50/60Hz

DC 20... 72 V

power consumption

AC 1.8 VA

DC ca. 1.6 W

relay circuit (maximal data)

contact set 1 (terminals 3, 4, 5)

contact set 2 (terminals 6, 7, 8)

switching voltage

AC 253 V

DC 253 V

switching capacity

min. 50 mW

AC 750 VA, $\cos\phi > 0.5$

DC 40 W, $\cos\phi = 1$

switched current

AC 5 A

DC 1 A



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Details of change:

To the existing receiver variant VEGAMIP MPR61(*)AX****R*** with integrated relay to evaluate the signal variant VEGAMIP MPR61(*)AX****T*** with transistor output is added.
For the modified equipment the existing Test Report is valid without change.



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Additional information:

Parameters continued:

VEGAMIP MPR61(*)AX****T***

input

supply voltage

(terminals 1, 2 in the terminal compartment)

DC 20...55 V

power consumption

< 1 W

signal circuit (maximal data)

(terminals 4,5 in the terminal compartment)

$U_{Load} = DC 20...55 V$

$I_{Load} \leq DC 400 mA$

High frequency parameters

transmitting-/emitting frequency K-Band

ca. 24 GHz

output radiating power (normal operation)

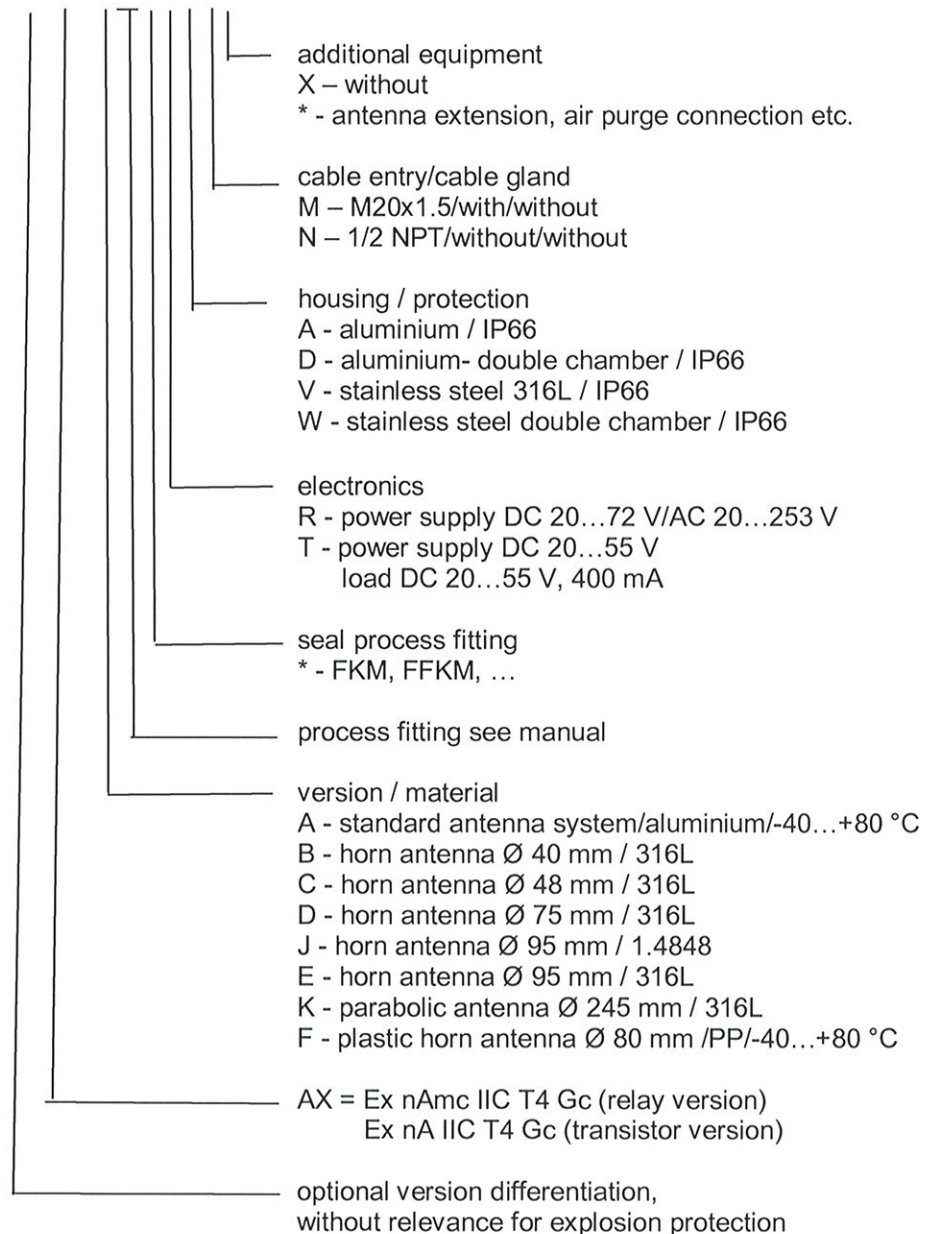
$P_{EIRP} 0.1 W$

Thermal data		
temperature class	temperature at the sensor	ambient temperature at the electronics enclosure
T4	-60 °C...+135 °C	-40 °C...+60 °C
T3	-60 °C...+200 °C	-40 °C...+60 °C
T2	-60 °C...+300 °C	-40 °C...+60 °C
T1	-60 °C...+450 °C	-40 °C...+60 °C

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Model/type reference:

Microwave barrier type
 VEGAMIP MPR61(*) .AX ***** (Receiver)



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Microwave barrier type

VEGAMIP MPT61(*).AX *** T *** (Transmitter)

