

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.lecex.com

Certificate No.	IECEx BVS 09.0054	issue No.:4	Certificate history:
Status:	Current		Issue No. 3 (2017-4-9) Issue No. 3 (2017-6-19) Issue No. 2 (2013-1-29) Issue No. 1 (2012-1-30)
Date of Issue:	2018-04-09	Page 1 of 4	Issue No. 0 (2009-10- 28)
Applicant:	VEGA Grieshaber I Am Hohenstein 113 77761 Schiltach Germany	KG	
Equipment: Optional accessory:	Microwave barrier ty (*).******T***	pe VEGAMIP MPR61(*).******R/T	***, MPR62(*).*****R/T****& MPT61
Type of Protection:	Equipment dust igni	tion protection by enclosure "t"	
Marking:	Ex ta IIIC T _{see manua} Ex ta/tb IIIC T _{see ma} Ex ta/tc IIIC T _{see ma} Ex tb IIIC T _{see manua}	_{al} Da _{nual} Da/Db _{nual} Da/Dc _{al} Db	
Approved for issue on be Certification Body:	ehalf of the IECEx	Jörg Koch	
Position:		Head of Certification Body	
Signature: (for printed version)			
Date:		9.4.18	
 This certificate and so This certificate is not t The Status and authe 	hedule may only be repr ransferable and remains nticity of this certificate m	oduced in full. the property of the issuing body. ay be verified by visiting the Offici	al IECEx Website.
Certificate issued by:			
DEI Din 4	KRA EXAM GmbH nendahlstrasse 9 44809 Bochum Germany	ッ	DEKRA
			On the safe side.





Certificate No.:

IECEx BVS 09.0054

Date of Issue:

2018-04-09

Issue No.: 4 Page 2 of 4

Manufacturer:

VEGA Grieshaber KG Am Hohenstein 113 77761 Schiltach Germany

Additional Manufacturing location(s): VEGA Americas Inc 4241 Allendorf Drive, Cincinnati, Ohio, 45209 United States of America

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 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
 Explosive atmospheres - Part 0: General requirements

 Edition: 6.0
 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

 Edition: 2
 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

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/ExTR09.0053/04

Quality Assessment Report:

DE/TUN/QAR06.0002/08



Certificate No.

IECEx BVS 09.0054

Date of Issue:

2018-04-09

Issue No.: 4 Page 3 of 4

Schedule

EQUIPMENT: Equipment and systems covered by this certificate are as follows:

Subject and Type

See Annex

Description

The microwave barrier type VEGAMIP MP*6* is used to measure a level limit in areas with combustible dust. It is based on radar and uses microwaves in GHz range. It can be installed in any Zone or partition wall. The VEGAMIP consists of a transmitting and a receiving unit which are mounted separately. Each unit is built of a housing with electronic insert and connected antenna, extensions and rinsing connections are possible. The receiving unit VEGAMIP MPR62(*) consists of two mechanical and electrical separated components, connected via rated cable. Further there are different versions based on various antennas and electronic inserts.

The enclosure is separately certified (IECEx BVS 14.0077U).

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: NO



Certificate No.

IECEx BVS 09.0054

Date of Issue:

2018-04-09

Issue No : 4

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Optional process connector

- Adjustment of model code

Annex: BVS_09_0054_VEGA_Annex_issue4 pdf



IECEx Certificate of Conformity DEKRA

Certificate No.:

IECEx BVS 09.0054 issue No.: 4 Annex Page 1 of 5

General product information:

Microwave barrier type



¹ The assessment for use in explosive gas atmospheres is **not** part of this certificate.



IECEx Certificate DEKRA

IECEx BVS 09.0054 issue No.: 4 Annex Page 2 of 5





IECEx Certificate DEKRA

IECEx BVS 09.0054 issue No.: 4 Annex

Page 3 of 5



¹ The assessment for use in explosive gas atmospheres is not part of this certificate.



Certificate No.:	IECEx BVS 09.0054 Annex Page 4 of 5	issue No	o.: 4		
Parameters					
Electrical data					
VEGAMIP MPT61	(*).GX/DK****T***				
input supply v (termina	oltage Is 1, 2 in the terminal compar	tment) AC DC	20 2 20	253 72	V, 50 / 60 Hz V
power co	onsumption	AC DC	ca.	1.8 1.3	VA W
VEGAMIP MPR67 VEGAMIP MPR62 input supply v (termina	l(*).GX/DK****R*** ²(*).GX****R*** oltage Is 1, 2 in the terminal compart	tment)			
		AC DC	20	253 72	V, 50 / 60 Hz V
power co	onsumption	AC DC	ca.	1.8 1.6	VA W
contact s	set 1 (terminals 3, 4, 5)	AC	:	253	V, 5 A
contact s	set 2 (terminals 6, 7, 8)	DC DC		30 125	V, 4 A V, 0 2 A
VEGAMIP MPR61 VEGAMIP MPR62 input supply v terminals	(*).GX/DK****T*** (*).GX*****T*** oltage s 1, 2 in the terminal compartr	nent) DC	20	55	V
power co	onsumption		<	1	W
signal ci terminals	rcuit (maximal data) s 4, 5 in the terminal compartr	nent)			
		U _{Load} = I _{Load} ≤	DC 20	55 \ 400 n	/ nA
High frequency pa	rameters				
transmitt output ra	ing-/emitting frequency K-Bar idiating power (normal operat	nd ca. 24 G ion)	Hz	0.1	14/
max. out	put radiating power (2 faults)	μ _{EIRP}		0.1	W



IECEx Certificate DEKRA

IECEx BVS 09.0054 issue No.: 4 Annex Page 5 of 5

Thermal data

Permitted ambient temperature range

At the sensor (in Zone 20 or 21)

VEGAMIP MPR/T6*(*).GX/DK****R/T*** VEGAMIP MPR/T6*(*).GX/DKA/F***R/T***	-40 °C+130 °C -40 °C+ 80 °C
high temperature version VEGAMIP MPR/T6*(*).GX/DK****R/T***	-60 °C…+250 °C
ceramics version VEGAMIP MPR/T6*(*).GX/DK****R/T***	-170 °C…+450 °C
At the electronics enclosure (in zone 20, 21 or 22)	
VEGAMIP MPR/T6*(*).GX/DK****R/T***	-40 °C +60 °C

max. surface temperature T

The max. surface temperature is the higher one of the following:

-	At the sensor (in Zone 20 or 21)	process temperature + 3 K
-	At the electronics enclosure (in Zone 20, 21 or 22)	limited by thermo fuse to 102 °C

Degrees of protection according to EN 60529, IP66



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 09.0054	issue No.:3	Certificate history: Issue No. 3 (2017-6-19)
Status:	Current		Issue No. 2 (2013-1-29) Issue No. 1 (2012-1-30) Issue No. 0 (2009-10-
Date of Issue:	2017-06-19	Page 1 of 4	28)
Applicant:	VEGA Grieshaber Am Hohenstein 113 77761 Schiltach Germany	KG	
Equipment: Optional accessory:	Microwave barrier ty (*).*****T***	/pe VEGAMIP MPR61(*).*****R/Л	***, MPR62(*).*****R/T*****& MPT61
Type of Protection:	Equipment dust igni	ition protection by enclosure "t"	
Marking:	Ex ta IIIC T _{see manua} Ex ta/tb IIIC T _{see ma} Ex ta/tc IIIC T _{see ma} Ex tb IIIC T _{see manu}	_{al} Da _{anual} Da/Db _{anual} Da/Dc _{al} Db	
Approved for issue on be Certification Body:	ehalf of the IECEx	Jörg Koch	
Position:		Head of Certification Body	
Signature: (for printed version)			
Date:		196.17	
 This certificate and so This certificate is not f The Status and auther 	hedule may only be rep transferable and remains nticity of this certificate r	roduced in full, s the property of the issuing body. nay be verified by visiting the Offic	cial IECEx Website.
Certificate issued by:			
DEI Din	KRA EXAM GmbH nendahlstrasse 9 44809 Bochum Germany	2	DEKRA On the safe side.





Certificate No.;

IECEx BVS 09.0054

Date of Issue:

2017-06-19

Issue No.: 3

Page 3 of 4

Schedule

EQUIPMENT: Equipment and systems covered by this certificate are as follows:

Subject and Type

See Annex

Description

The microwave barrier type VEGAMIP MP*6* is used to measure a level limit in areas with combustible dust. It is based on radar and uses microwaves in GHz range. It can be installed in any zone or partition wall. The VEGAMIP consists of a transmitting and a receiving unit which are mounted separately. Each unit is built of a housing with electronic insert and connected antenna, extensions and rinsing connections are possible. The receiving unit VEGAMIP MPR62(*) consists of two mechanical and electrical separated components, connected via rated cable. Further there are different versions based on various antennas and electronic inserts.

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: NO



Certificate No.:

IECEx BVS 09.0054

Date of Issue:

2017-06-19

Issue No.: 3

Page 4 of 4

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

New Versions with Parabol antenna, additional equipment and a special color Al-housing are added. Adjustment of model code

Annex: BVS_09_0054_VEGA_Annex_issue3.pdf



Certificate No.:

IECEx BVS 09.0054 issue 3 Annex Page 1 of 5

Subject and Type





IECEx Certificate DEKRA

IECEx BVS 09.0054 issue 3 Annex Page 2 of 5



IECEx Certificate DEKRA

IECEx BVS 09.0054 issue 3 Annex Page 3 of 5

IECEx Certificate of Conformity

IECEx BVS 09.0054 issue 3 Annex Page 4 of 5

Parameters

Electrical data

VEGAMIP MPT61(*).G*****T***

input supply voltage

	(terminals 1, 2 in the terminal compartm	ont)			
	(terminais 1, 2 in the terminal compartm	AC DC	20 20	253 72	V, 50 / 60 Hz V
	power consumption	AC DC	ca.	1.8 1.3	3 VA 3 W
VEGAMI	P MPR61/62(*).G*****R*** input				
	supply voltage	o			
	(terminais 1, 2 in the terminal compartine		20	253	V 50/60 Hz
		DC	20	72	V, 307 00 112 V
	power consumption	AC		1.8	VA
	relay circuit (maximal data)	DC	ca.	1.6	W
	contact set 1 (terminals 3, 4, 5)	AC		253	V 5 A
	contact set 2 (terminals 6, 7, 8)	/10		200	,
		DC DC		30 125	V, 4 A V, 0.2 A
VEGAMI	P MPR61/62(*).G*****T*** input supply voltage				
	terminals 1, 2 in the terminal compartme	nt)	20	55	V
	nower consumption	DC	20	1	10/
	power consumption			1	vv
	signal circuit (maximal data) terminals 4, 5 in the terminal compartme	nt)			
		U _{Load} = D I _{Load} ≤	C 20.	55 V 400 i	√ mA
High freq	uency parameters				
	transmitting-/emitting frequency K-Band	ca. 24 GH	z		
		PEIRP		0.1	W
	max. output radiating power (2 faults)	PEIRP		0.2	W

Certificate No.:	IECEx BVS 09.0054 issue Annex Page 5 of 5	9 3
Thermal data	k.	
Permitted am	bient temperature range	
At the sensor	(in zone 20 or 21)	
VEC VEC	3AMIP MPR/T6*(*).G*****R/T*** 3AMIP MPR/T6*(*).G*A/F***R/T***	-40 °C…+130 °C -40 °C…+ 80 °C
high VEC	ו temperature version GAMIP MPR/T6*(*).G*****R/T***	-60 °C…+250 °C
cera VEC	amics version GAMIP MPR/T6*(*) .G*****R/T***	-170 °C…+450 °C
At the electron	nics enclosure (in zone 20, 21 or 22)	
VEC	GAMIP MPR/T6*(*).G*****R/T***	-40 °C + 60 °C
max. surface	temperature T	
The	max. surface temperature is the higher of	one of the following:

 At the sensor process temperature + 3 K (in zone 20 or 21)
 At the electronics enclosure (in zone 20, 21 or 22)
 limited by thermo fuse to 102 °C

Degrees of protection according to EN 60529, IP66

	RNATIONAL ELE Certification Sch for rules and details of	CTROTECHNICA eme for Explosive of the IECEx Scheme visit ww	AL COMMISSION ve Atmospheres ww.iecex.com
Certificate No.:	IECEx BVS 09.0054	issue No.::	2 Certificate history:
Status:	Current		Issue No. 1 (2012-1-30) Issue No. 0 (2009-10-
Date of Issue:	2013-01-29	Page 1 of 5	28)
Applicant:	VEGA Grieshaber K0 Am Hohenstein 113 77761 Schiltach Germany	3	
Electrical Apparatus: Optional accessory:	Microwave barrier type	VEGAMIP	
Type of Protection:	Equipment dust ignitic	on protection by enclosure	'ť
Marking:	type VEGAMIP MP*61(* Ex t IIIC T * Da Ex t IIIC T * Da/Db Ex t IIIC T * Da/Dc Ex t IIIC T * Db IP66 * max. surface temperatu type VEGAMIP MP*61(* Ex d IIC T1T6 Ga/Gb Ex d IIC T1T6 Gb Ex d IIC T1T6 Gb Ex t IIIC T * Da/Dc Ex t IIIC T * Da/Dc Ex t IIIC T * Db IP66).GX****T*** ure see manual).DK****T***	
Approved for issue on L Certification Body:	behalf of the IECEx	HCh. Simanski	
Position:		Head of Certification Body	
Signature: (for printed version) Date:		1. C. Lin	h.
 This certificate and s This certificate is not The Status and author 	chedule may only be reprod transferable and remains th enticity of this certificate may	uced in full. e property of the issuing bod be verified by visiting the O	y. fficial IECEx Website.
Certificate issued by: D D	EKRA EXAM GmbH binnendahlstrasse 9 44809 Bochum Germany	D	DEKRA EKRA EXAM GmbH

	IECEx of C	Certificate onformity
Certificate No.:	IECEx BVS 09.0054	
Date of Issue:	2013-01-29	Issue No.: 2
Manufacturer:	VEGA Grieshaber KG Am Hohenstein 113 77761 Schiltach Germany	Page 2 of 5
Additional Manufacturing (s):	g location	
This certificate is issued found to comply with the covered by this certificat certificate is granted sub as amended.	as verification that a sample(s), represent IEC Standard list below and that the mai e, was assessed and found to comply with oject to the conditions as set out in IECEx	ntative of production, was assessed and tested and nufacturer's quality system, relating to the Ex products th the IECEx Quality system requirements. This Scheme Rules, IECEx 02 and Operational Documents
STANDARDS: The electrical apparatus documents, was found to	and any acceptable variations to it speci o comply with the following standards:	fied in the schedule of this certificate and the identified
IEC 60079-0 : 2011 Edition: 6.0 IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres - Part 0: Ge Explosive atmospheres – Part 31: E	neral requirements
This Certificate does	not indicate compliance with electrical sa expressly included in the Stan	fety and performance requirements other than those dards listed above.
TEST & ASSESSMENT A sample(s) of the equip	REPORTS: ment listed has successfully met the exa	mination and test requirements as recorded in
<u>Test Report:</u> DE/BVS/ExTR09.0053/0	2	
Quality Assessment Rep	oort:	
DE/TUN/QAR06.0002/04	4	

Certificate No .: IECEx BVS 09.0054 Date of Issue: 2013-01-29 Issue No.: 2 Page 3 of 5 Schedule EQUIPMENT: Equipment and systems covered by this certificate are as follows: Parameters Electrical data VEGAMIP MPT61(*).G*****T*** input supply voltage (terminals 1, 2 in the terminal compartment) AC 20... 253 V, 50/60 Hz DC 20... 72 V AC 1.8 VA DC ca. 1.3 W 1.8 VA power consumption ca. 1.3 W VEGAMIP MPR61/62(*).G******** VEGAMIP MPR61/62(*).G*****R*** input supply voltage (terminals 1, 2 in the terminal compartment) AC 20... 253 V, 50/60 Hz 20... 72 V DC power consumption AC 1.8 VA DC ca. 1.6 W relay circuit (maximal data) AC 253 V, 5 A contact set 1 (terminals 3, 4, 5) contact set 2 (terminals 6, 7, 8) DC 30 V, 4 A DC 125 V, 0.2 A CONDITIONS OF CERTIFICATION: NO

IEC.	ÎÊĈEx
------	-------

Certificate No.:	IECEx BVS 0	9.0054			
Date of Issue:	2013-01-29			Issue No.: 2	
				Page 4 of 5	
EQUIPMENT(continued):					
VEGAMIP MPR61/62(*).G****T***					
input supply voltage (terminals 1, 2 in the	e terminal com	partment)			
	DC	20 55 V			
power consumption		< 1 W			
signal circuit (maximal data)					
(terminals 4, 5 in the terminal comp	partment)	20 55 \/			
	U _{Load} = DC	2055 V mΔ			
	Load - 400				
High frequency parameters					
transmitting-/emitting frequency K-E	Band				
output radiating power (normal ope	ration) P _{EIRP} 0	.1 W			
output radiating power (2 faults)	P _{EIRP} 2	.7 W			
The sum of the fee					
Permitted ambient temperature ran	ge				
	0				
At the sensor (in zone 20 or 21)	D/T***		40%0 1120%0		
VEGAMIP MPR/16 ().G	K/ I ***R/T***		-40°C +80°C		
			40 0		
high temperature version					
VEGAMIP MPR/T6*(*).G*****	R/T***		-60°C+250 °C		
ceramics version					
VEGAMIP MPR/T6*(*).G*****	R/T***		-170°C+450 °C		
At the electronics enclosure (in zon	e 20, 21 or 22)				
VEGAMIP MPR/T6*(*).G*****	R/T***		-40°C+60 °C		
Max. surface temperature T					
At the sensor (in zone 20 or 21)		process temp	erature + 3 K		
		process temp			
At the electronics enclosure (in zone VEGAMIP MPR/T6*(*).G*****	e 20, 21 or 22) R/T***	with thermo fu	se limited to 102 °C		
Degrees of protection according to E	EN 60529 IP66	3			
General product information					

Certificate No.: Date of Issue: IECEx BVS 09.0054

2013-01-29

Issue No.: 2

Page 5 of 5

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

A new variant with mechanically and electrically separated evaluation unit is added to the receiver type VEGAMIP MPR61(*).GX****T***.

This variant has got the type designation VEGAMIP MPR62(*).GX****R/T***.

Sensor unit and evaluation unit are located in two separate enclosures made of aluminium or stainless steel and are connected via cable (PUR, max. length 25 m).

The enclosure of the evaluation unit is fixed on a twistable base.

Annexe: BVS_09_0054_VEGA_Annex_issue2.pdf

IECEx Certificate DEKRA

Certificate No.:

IECEx BVS 09.0054 issue 2

Annex

IECEx Certificate DEKRA

Certificate No.:

IECEx BVS 09.0054 issue 2

Annex

INTERN IEC Ce	NATIONAL ELE ertification Sch for rules and details o	CTROTECHNICA eme for Explosive f the IECEx Scheme visit www	AL COMI /e Atmos w.iecex.com	WISSION spheres
Certificate No.:	IECEx BVS 09.0054	issue No.:	Ce	rtificate history:
Status:	Current			sue No. 1 (2012-1-30) ssue No. 0 (2009-10- 28)
Date of Issue:	2012-01-30	Page 1 of 5		
Applicant:	VEGA Grieshaber KC Am Hohenstein 113 77761 Schiltach Germany	3		
Electrical Apparatus: Optional accessory:	Microwave barrier type	≥ VEGAMIP		
Type of Protection:	Equipment dust ignitic	on protection by enclosure	'ť'	
Marking:	type VEGAMIP MP*61(* Ex t IIIC T * Da Ex t IIIC T * Da/Db Ex t IIIC T * Da/Dc Ex t IIIC T * Db IP66 * max. surface temperat type VEGAMIP MP*61(* Ex d IIC T1 T6 Ga/Gb).GX****T*** ure see manual).DK****T***		
	Ex d IIC T1T6 Gb Ex t IIIC T * Da/Db Ex t IIIC T * Da/Dc Ex t IIIC T * Db IP66 * max. surface temperat	ure see manual		
Approved for issue on be Certification Body:	half of the IECEx	HCh. Simanski		
Position:		Head of Certification Body		
Signature: (for printed version)		A. G. h	h.	-
Date:		307 2012		-
 This certificate and sch This certificate is not tr The Status and authen 	nedule may only be reproc ansferable and remains th ticity of this certificate ma	luced in full. he property of the issuing boo y be verified by visiting the C	ly. fficial IECEx V	Vebsite.
Certificate issued by: DE Dir	KRA EXAM GmbH mendahlstrasse 9 44809 Bochum Germany	D		EKRA AM GmbH

	IECEx Certificate of Conformity		
Certificate No.:	IECEx BVS 09.0054		
Date of Issue:	2012-01-30	Issue No.: 1	
		Page 2 of 5	
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 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

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/ExTR09.0053/01

Quality Assessment Report:

DE/TUN/QAR06.0002/04

	IECEx Certificate of Conformity		
Certificate No.:	IECEx BVS	09.0054	
Date of Issue:	2012-01-30		Issue No.: 1
			Page 3 of 5
		Schedule	
EQUIPMENT: Equipment and systems covered by	y this certifica	te are as follows:	
Parameters			
Electrical data VEGAMIP MPT61(*).G*****T***			
input			
supply voltage (terminals 1, 2 in th	e terminal co	mpartment)	
	AC	20 253 V, 50/60 Hz	
nower consumption		20 72 V	
	DC	ca. 1.3 W	
VEGAMIP MPR61(*).G******** VI	EGAMIP MPF	R61(*).G*****R***	
input	ner, mensen renter, order	to reaction of the second second	
supply voltage (terminals 1, 2 in the	e terminal col	mpartment)	
	DC	20 72 V	
power consumption	AC	1.8 VA	
	DC	ca. 1.6 W	
relay circuit (maximal data)	10	0501/ 5 4	
contact set 2 (terminals $3, 4, 5$)	AC	253 V, 5 A	
contact set 2 (terminals 0, 7, 0)	DC	125 V, 0.2 A	

CONDITIONS OF CERTIFICATION: NO

IEC.	IEĈE X
------	---------------

-40°C...+130°C

-60°C...+250 °C

-170°C...+450°C

-40°C...+60°C

-40°C...+80°C

Certificate No .:

IECEx BVS 09.0054

2012-01-30

Date of Issue:

Issue No.: 1

Page 4 of 5

EQUIPMENT(continued):

VEGAMIP MPR61(*).G*****T*** input supply voltage (terminals 1, 2 in the terminal compartment) 20... 55 V DC < 1 W power consumption

signal circuit (maximal data) (terminals 4,5 in the terminal compartment) ULoad = DC 20...55 V ILoad ≥ 400 mA

High frequency parameters transmitting-/emitting frequency K-Band output radiating power (normal operation) PEIRP 0.1 W output radiating power (2 faults) PEIRP 2.7 W

Thermal data Permitted ambient temperature range

At the sensor (in zone 20 or 21) VEGAMIP MPR/T61(*).G*****R/T*** VEGAMIP MPR/T61(*).G*A/F***R/T***

high temperature version VEGAMIP MPR/T61(*).G*****R/T***

ceramics version VEGAMIP MPR/T61(*) .G*****R/T***

At the electronics enclosure (in zone 20, 21 or 22) VEGAMIP MPR/T61(*).G*****R/T***

Max. surface temperature T

At the sensor (in zone 20 or 21) process temperature + 3 K

At the electronics enclosure (in zone 20, 21 or 22) VEGAMIP MPR/T61(*).G*****R/T*** with thermo fuse limited to 102 °C

Degrees of protection according to EN 60529 IP66

Type Code See Annex

Certificate No .:

IECEx BVS 09.0054

Date of Issue:

2012-01-30

Issue No.: 1 Page 5 of 5

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

To the existing receiver variant VEGAMIP MPR61(*).*****R*** with integrated relay to evaluate the signal variant VEGAMIP MPR61(*).*****R*** with transistor output is added. Variant VEGAMIP MP*61(*).DK********* is added. This variant is suitable for use in combustible dusts or explosive gasair mixtures.

Annexe: BVS_09_0054_Issue1_VEGA_Annex.doc

Certificate No.:

IECEx BVS 09.0054 Issue 1 Annex Page 1 of 2

Type Code:

Certificate No.:

IECEx BVS 09.0054 Issue 1 Annex Page 2 of 2

