8	BPLOURS BS	PLOLARS CEPHOLA	IS CEPTIOLARS CER	nours Genours Genou	NES CEPTOLARS CEPTOLARS (2)	PLOLARS (BEPLOLARS
TOTAL S	(IN)	PIO	ARS		7 Spanner	Rd / PO Box 467 Olifantsfontein 1665
<b>EPPOLAE</b>	Reg	Explosion Preve No: 1999/027771/		(Pty) Ltd	Tel: +: Fax: +: E-mail: <u>admin-mgr(</u>	27 (11) 316 4601 27 (11) 316 5670 Dexplolabs.co.za
STIOLARS	GOVERNMENT APPROVED TEST LABORATORY IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"					
PLOUADS -				IA CERTIFICATE	Date Issued: *Expiry date:	30 May 2023 30 May 2026 Page 1 of 6
8						Issue: 8
PIOU	Ex – Type Examination Certificate					
@ 0	Certificate Equipment		-XPL/10.0120 licrowave barri	er		đ
<b>MUOLUE</b>	Model / Ty Applicant:	pe: V		1(*).******R/T*** & MPT	61(*).*****T*** & MPR62('	').*****R/T*****
9 8				113, 77761 Schiltach		1
Plot	Manufactu		ermany EGA Grieshabe	er KG		
<b>P</b> <b>N</b>	Serial No:	A	ll serial numbe	ers imported between	issued- and expire date eptable product certification	
IOLARS (BIPLO)	numbers covered by a valid report or acceptable product certification mark. Supplied by VEGA Grieshaber KG Identified by Inspection Authority number					
TOLNS OF	S-XPL/10.0120 And as described in the Explolabs file number XPL/11048/10.0120 Issue 8 is hereby <u>certified "Explosion</u> <u>Protected (Refer to clause 1, for Ex Rating)"</u> , having been examined and inspected in accordance with the relevant requirements of South African Standards.					
	SANS 600 IEC 60079	79-0: 2012 Ed -0: 2011 Ed 6 79-31: 2014 Ec	5 Explosive	atmospheres Part 0: E	quipment — General requi Equipment dust ignition pro	
		-31: 2013 Ed 2	· · · · · · · · · · · · · · · · · · ·		Equipment dust ignition pro	
SINO	Risk of igniti	on provided:			1	
MAR SINIO	Protection afforded	Equipment Protection Level (EPL) Group		formance of protection	Conditions of operation	T class or Max Surface Temp (°C)
AIS OF	Very high	Da Group III		nt means of protection or hen two faults occur if each other	Equipment remains functioning in zones 20, 21 and 22	
INIS (BPIOL	High	Db Group III	frequently occ	normal operation and urring disturbances or ere faults are normally unt	Equipment remains functioning in zones 21 and 22	See manual
	Enhanced	Dc Group III	Suitable for nor	mal operation	Equipment remains functioning in zone 22	
S (SPIOLAIS (SPIO	that the apparatu           i)         SANS           iii)         Any c           iiii)         Any n           and         iv)           iv)         Any n           and         sv)           A revi         and S           vi)         A revi           vii)         If and	s is used as relevant is 10086 and IEC/SAN onditions mentioned i elevant requirements estrictions and condit afety. ision certificate replac ily covers equipment when your QAN (Qu.	in accordance with: IS 61241-14 requirement in the above report; and codes of practice tions enforced by the C es all previous version Imported between the ality Assurance Notific	enforced in terms of the Mine H chief Inspector of Mines or the Pri of the certificate. "Issued" and "Expire" dates. ation) Certificate for your equipment	MR 9(2) of the Occupational Health are ealth and Safety Act or Occupational incipal Inspector or the Chief Inspect nt manufacturer expires during the va	Health and Safety Act;
LIOU	vii) If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Exploitabs (Phy) Ltd					
<b>P</b>	DOCUMENT No: XPL0213 RELEASE DATE: 29/05/2018 REV: 7     This certificate supersedes all previous documents bearing the reference no XPL/11048/10.0120 Issue 7.     This certificate supersedes all previous documents bearing the reference no XPL/11048/10.0120 Issue 7.     This certificate supersedes all previous documents bearing the reference no XPL/11048/10.0120 Issue 7.					
	Artender					



199	LOUARS BEPLOUARS BEPLOU	nas Cas	PLOUARS (EPHOLARS	S CEPHOLARS CEPHOLARS CEPHOLARS CEPHOLA	IS CEPHOLAIS CEPHOLAIS	5	
<b>SIVIOL</b> 1.	GENERAL			ATE NO S-XPL/10.0120	PAGE 2 OF 6	<b>WOLKE</b>	
	The marking of the Mid Ex ta IIIC T* Da Ex ta/tb IIIC T* Da/Db Ex ta/tc IIIC T* Da/Dc Ex tb IIIC T* Db	,	ve darner shall ir	nciude the following:		SIMONAR	
TENONE (BU	IP66 *max. surface temper	rature	see manual			SUTOLAR	
SINOLIS	Product description Subject and type Microwave barrier type		* * (Deeeiwer)			SUTIONAR	
SINOUNS	VEGAMIP MPR61(*).****	ŤШ	* * * (Receiver)	Additional equipment X – without		SUNDAR	
STUDINE				<ul> <li>* - antenna extension, air purge c</li> <li>Cable entry/cable gland</li> <li>M – M20x1.5/with</li> </ul>	onnection etc.	SUVOLEE	
PIONS 4				N – 1/2NPT/without J – 1/2NPT/with * - separately certified cable glanc (M20x1.5 or 1/2NPT)	Is and blind plugs	AMOURS STITUTES STITUTES	
BPIOLARS 4				Housing/protection A – aluminium/IP66 V – stainless steel 316L/IP66 H – AI special colour/IP66/68 0.2t		Samonate	
Approvate Approvate Approvate				Electronics R – power supply DC 2072 V/A T – power supply DC 2055 V		LEE STYOLE	
STOLES				Load DC 2055 V, 400 mA			
<b>BIFIOLDIS</b>				* - FKM, FFKM			
STHOLES				Version/material A – standard antenna system/alur B – horn antenna ø 40 mm/316L C – horn antenna ø 48 mm/316L	ninium/-40°C…+80°C	IONIS (3PPIO	
nouse Approvate Approvate Approvate Approvate				D – horn antenna ø 75 mm/316L J – horn antenna ø 95 mm/316L E – horn antenna ø 95 mm/316L F – plastic horn antenna ø 80 mm X – for separate horn antenna	ı/PP/-40°C…+80°C	MOLES SIM	
S (SPIOLA				Approval GX – Surface, Dust, Zone 20, 20/ ta, ta/tb, ta/tc, tb IIIC T* IP66		MONES SI	
S (SPION				DK - Surface, Dust, Zone 20, 20/ ta, ta/tb, ta/tc, tb IIIC T* IP66 Surface, Gas, Zone 0/1, 1 E	δ <b>+</b>	STUDIES S	
MOUNT -	<sup>1</sup> The assessment for use	e in exr	plosive gas atmos	<ul> <li>Optional version differentiation, Without relevant for explosion pro</li> <li>pheres is <u>not</u> part of this test report.</li> </ul>	tection	SIMONES	
(BILIOUR		• • •	940 441100			SUNDLES	
SINIONIS				DOCUMENT No: XPL0213 RELEASE DATE: 2	9/05/2018 REV : 7	SIMOLES	
100	This certificate supersedes all previous documents bearing the reference no XPL/11048/10.0120 Issue 7. Permolans Permolans						

	promis Aprionis	
SIMIS	ANNEX TO CERTIFICATE NO S-XPL/10.0120 PAGE 3 OF 6	Ness I
	Microwave barrier type VEGAMIP MPR62(*). <u>***</u> ********************************	SING
aans fermionans fermionans fermionans fermionans fe	Additional equipment X – without * - antenna extension, air purge connection etc. Cable entry/cable gland M – M20x1.5/with N = 1/2/PT/without	singles singles singles singles singles singles singles singles singles
TEPLOLARS TEPLO	* Customer-specific/PUR/without Housing/protection A – aluminium/IP66 V - stainless steel 316L/IP66 H – AI special colour/IP66/68 0.2bar	STATIONAR SAV
CERTIONER CERTIONER CERTIONER CERTIONER	Electronics R – power supply DC 2072 V/AC 20253 V T – power supply DC 2055 V Load DC 2055 V, 400 mA Seal process fitting	STUDIES STUDIES
<b>8</b>	* - FKM, FFKM	<b>TOLER</b>
IN (ETHOM	Process fitting see manual Version/material A – standard antenna system/aluminium/-40°C+80°C	VIIS EXPLOIMIS
TERIOLARS TERIOLA		MUCHER STUDIES STUDIES STUDIES
STINOLUS	Approval GX – Surface, Dust, Zone 20, 20/21, 20/22, 21 ta, ta/tb, ta/tc, tb IIIC T* IP66	MIS BINO
S CERTICIARS CERTICIARS CERTICIARS	Optional version differentiation, Without relevant for explosion protection	MOLES SAM
S (ERIOUAR		WINDLESS ST
S (EPICIAR		SUNDLAR
NOLUS S		SUNDIAR
INDIAS	DOCUMENT No: XPL0213 RELEASE DATE: 29/05/2018 REV : 7 This certificate supersedes all previous documents bearing the reference no XPL/11048/10.0120 Issue 7.	SEVIOLAS
	nous Genous	

ionais assionais a	REPLOINES CEPTIOLNES CEPTIOLNES CEPTI	DIARS CEPTIOLARS CEPTIOLARS CEPTIOLARS CEPTI	QUA
	ANNEX TO CERTIFICATE	IO S-XPL/10.0120 PAGE 4 O	F 6
Microwave barrier t VEGAMIP MPT61(			
		<ul> <li>Additional equipment</li> <li>X – without</li> </ul>	
		* - antenna extension, air purge connection etc.	
		<ul> <li>Cable entry/cable gland</li> </ul>	
		M – M20x1.5/with	
		N – 1/2NPT/without J – 1/2NPT/with	
		* - separately certified cable glands and blind plugs (M20x1.5 or 1/2NPT)	
		<ul> <li>Housing/protection</li> </ul>	
		A – aluminium/IP66	
		V – stainless steel 316L/IP66 H – Al special colour/IP66/68 0.2bar	
		<ul> <li>Electronics</li> <li>T – power supply DC 2072 V / AC 20253 V</li> </ul>	
		Seal process fitting * - FKM, FFKM	
		<sup>¬</sup> Process fitting	
		**see manual	
		– Version/material	
		A – standard antenna system/aluminium/-40°C+80	)°C
		B – horn antenna ø 40 mm/316L C – horn antenna ø 48 mm/316L	
		D – horn antenna ø 75 mm/316L	
		J – horn antenna ø 95 mm/316L E – horn antenna ø 95 mm/316L	
		F - plastic horn antenna ø 80 mm/PP/-40°C+80°C X - for separate horn antenna	;
		– Approval	
		GX – Surface, Dust, Zone 20, 20/21, 20/22, 21	
		ta, ta/tb, ta/tc, tb IIIC T* IP66 DK - Surface, Dust, Zone 20, 20/21, 20/22, 21	
		ta, ta/tb, ta/tc, tb IIIC T* IP66 + Surface, Gas, Zone 0/1, 1 Ex db IIC T6 Ga/Gb,	, Gb
		<ul> <li>Optional version differentiation,</li> <li>Without relevant for explosion protection</li> </ul>	
<sup>1</sup> The assessment f	or use in explosive gas atmospheres	is <u>not</u> part of this test report.	
Description			
Reason for the sup			
<ul> <li>Optional proce</li> <li>Adjustment of r</li> </ul>			
Description of Pro The microwave bar		measure a level limit in areas with combustible dust.	It
		an be installed in any Zone or partition wall.	
housing with elect	ronic insert and connected antenn	g unit which are mounted separately. Each unit is buil a, extensions and rinsing connection are possible.	Th
rated cable. Furthe		anical and electrical separated components, connecte n various antennas and electronic inserts.	ed v
		MENT No: XPL0213 RELEASE DATE: 29/05/2018 REV :	

GEPTIOLARS (BEPTIOLARS (BEPTIOLARS

APPIOLARS APPIOLARS APPIOLARS APPIOLARS

**ETPIOLUS** 

**EPIOLARS** 

EPIOLAIS EPIOLAIS

**EPIOLARS** 

GRIDOLAIS COPICIAIS COPICIAIS

SINOLIX

100	LOUIS (EPICIUS (EPICIUS (EPICUS	s Corioi	ARS ARTIOLARS ARTIOLARS ARTIOLARS A	anonis (trionis
	ANNEX TO CERTIFIC		O S-XPL/10.0120	PAGE 5 OF 6 🧋
2	Parameters			10
<b>@</b>				8
EPHONIS EPHONIS	VEGAMIP MPT61(*).GX/DK****T***			<b>1</b>
2	Input			Į,
õ	Supply voltage			No.
2	(terminals 1, 2 in the terminal compartment)			<u></u>
ğ		AC DC	20253 V, 50/60 Hz 2072 V	
3	Power consumption	AC	1.8 VA	ARK AND
<u>8</u> 1		DC	ca. 1.3 W	
3	VEGAMIP MPR61/62(*).*********			16
STHOLES	VEGAMIP MPR61(*).GX/DK****R*** VEGAMIP MPR62(*).GX****R***			LANS .
2	Input			
	Supply voltage			10
ř.	(terminals 1, 2 in the terminal compartment)			
<b>P</b>		AC DC	20253 V, 50/60 Hz 2072 V	
3	Power consumption	AC	1.8 VA	700
2		DC	ca. 1.3 W	
STHOME				4
<b>8</b>	Relay circuit (maximal data)			
<u>j</u>	Contact set 1 (terminals 3, 4, 5)	AC	253 V, 5 A	
EPIOLUS EPIOLUS		70	200 4, 0 A	
2	Contact set 2 (terminals 5, 7, 8)	DC	30 V, 4 A	
3		DC	125 V, 0.2 A	
<u>F</u>	VEGAMIP MPR61(*).GX/DK****T*** VEGAMIP MPR62(*).GX****T***			
	Input			
3	Supply voltage			
ž	(terminals 1, 2 in the terminal compartment)			105
<b>P</b>	Device concurrentian	DC	2055 V	
<b>8</b>	Power consumption		< 1 W	<b>9</b>
2	Signal circuit (maximal data)			18
5	Terminals 4, 5 in the terminal compartment)			9
<b>8</b> 1			DC 2055 V	<u>e</u>
3		$I_{LOAD} \le 4$	100 MA	8
5	High frequency parameters			8
<b>1</b>	Transmitting-/emitting frequency K-Band ca. 24 (	GHz		Į ۲
3	Output radiating power (normal operation)	_	a	1
ž	Max. output radiating power (2 faults)	PEIRP	0.1 W	
<b>P</b>	Max. Output radiating power (2 radits)	PEIRP	0.2 W	
3				A
2	Thermal data			
<b>P</b>	Permitted ambient temperature range			10
TELEVISIONS (ESTICATE)	At the sensor (in zone 20 or 21) VEGAMIP MPR/T6*(*).GX/DK****R/T***	-40°C	+130°C	Same and the
ğ	VEGAMIP MPR/T6*(*).GX/DK****R/T*** VEGAMIP MPR/T6*(*).GX/DKA/F****R/T***	-40°C		
<b>8</b>	High temperature version			
	VEGAMIP MPR/T6*(*).GX/DK****R/T***	-60°C	+250°C	
ð	Ceramics version			4
STHOLIS	VEGAMIP MPR/T6*(*).GX/DK****R/T***	-170°C.	+450°C	
3	At the electronics enclosure (in zone 20, 21 or 22	2)		
STILLING ST	VEGAMIP MPR/T6*(*).GX/DK****R/T***	-40°C	+00 0	
<b>*</b>	Max. surface temperature T			le la
MB	The max. surface temperature is the higher one			
2	At the sensor		temperature + 3K	
<b>B</b>	(in Zone 20 or 21)	limited -	by thormos fuso to 100°C	
2	At the electronics enclosure (in Zone 20, 21 or 22)	innited b	by thermos fuse to 102°C	8
<u>S</u>	( 20.00 20, 21 01 22)			
		DOCUM	IENT No: XPL0213 RELEASE DATE: 29/05/2	2018 REV : 7
	This certificate supersedes a	all previous	documents bearing the reference no XPL/1	1048/10.0120 Issue 7.

This certificate supersedes all previous documents bearing the reference no XPL/11048/10.0120 Issue 7.

	IOLAIS (BETIOLAIS (BETIOU	is Agnouis Agnouis Agnouis Agnouis Agnouis Agnouis	GTIOLIS GTIOLIS
MUOUR		NEX TO CERTIFICATE NO S-XPL/10.0120 cording to IEC/SANS 60529, IP66	PAGE 6 OF 6
	Based on the following	documentation: BVS 09 ATEX E 132 Supplement 5	
2.	INSTALLATION INST It is the manufacturer's required by IEC/SANS	s responsibility to supply installation instructions with each uni	t offered for sale as
🦂 3.	SPECIAL CONDITION	IS OF USE (X)	
1000 4.	<b>CONDITIONS OF CEP</b> All production units mu or batch evaluation.	RTIFICATION ist be covered by a QAN (Quality Assurance Notification), Prod	uct Mark Scheme
5.	MARKING The following (or simila Supplier Manufacturer Equipment Model/Type	ar) information have to be clearly and permanently marked on a : VEGA Grieshaber KG : VEGA Grieshaber KG : Microwave barrier : VEGAMIP MPR61(*) *******R/T*** &	
uns Astroums Astro	Serial No. Ex Rating	MPT61(*).******* & MPR62(*).******R/T***** : : Ex ta IIIC T* Da Ex ta/tb IIIC T* Da/Db Ex ta/tc IIIC T* Da/Dc Ex ta to IIIC T* Db IP66 *max. surface temperature see manual	ne danone danon
(and	IA Certificate No	: S-XPL/10.0120	
BRIGARE ESPICIALS ESPICIAL	This report/certificate shall not b losses or damages sustained o disclaimer is immutable and au	s SION PREVENTION SERVICES be reproduced except in full without the written approval of the company Exploiabs (Pty) L n account of any failure or omission to properly perform our duties in terms of any contr iomatically incorporated in any contract undertaken by us; notwithstanding anything to	act undertaken by us. This and the contrary, save for the set
AND TRUDUNS AND	on his own responsibility that th the routine verifications and tes	anaging director. By marking the equipment in accordance with the documentation/standa e equipment has been constructed in accordance with the applicable requirements of the ts have been successfully completed and that the product complies with the document trifficates cannot be guaranteed. Original certification documents will be kept on file at Exp	relevant standards and that
STRUCTURE (SPILO			Agriculas Agricula
STIOLES STIOLS			s Agrious Agriou
- STORE		DOCUMENT No: XPL0213 RELEASE DATE: 29/0 nis certificate supersedes all previous documents bearing the reference no XPL REFERENCE PERFORME PERFORME PERFORME	/11048/10.0120 Issue 7.