

Serie Rhombus

Antena de TV DIGITAL OPTIMIZADA HDTV que ofrece una alta ganancia y gran resistencia mecánica.

APLICACIÓN

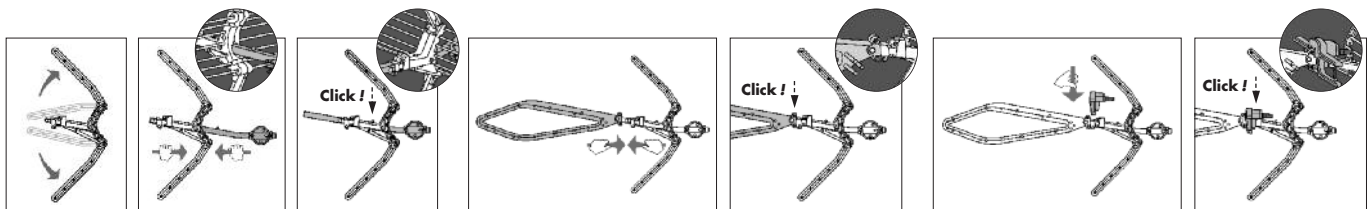
Recepción de TV digital y analógica en instalaciones de tipo colectivo o individual, con algunos modelos totalmente adaptados al entorno LTE.

CARACTERÍSTICAS

- Un diseño moderno y optimizado para conseguir la máxima relación ganancia/tamaño del mercado.
- Auto-adaptativa: señal constante y equilibrada, minimizando las pérdidas y maximizando su adaptación.
- Ligera y robusta, diseñada con las últimas tecnologías para garantizar una excelente respuesta y asegurar una larga vida.
- Dipolo activo-pasivo.
- Facilidad de montaje en solo 3 pasos y sin la necesidad de herramientas.
- Embalaje unitario y compacto de reducido tamaño.
- Amarre a mástil cómodo y ergonómico para asegurar su fijación.

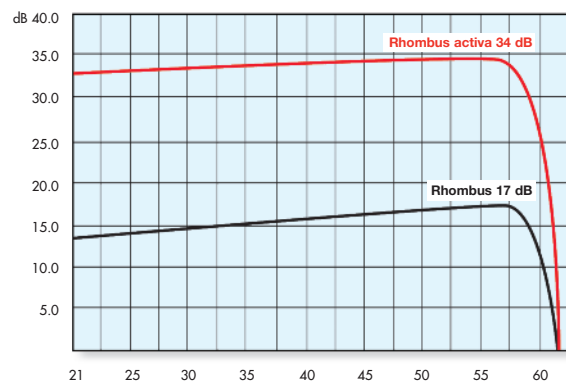


CAPTACIÓN DE SEÑAL



MODELO	rhombus	rhombus 5	rhombus P	rhombus 5 P
Referencia	84390	84391	84393	84392
Canales	21-60			
Ganancia	17 (34 activa)		17	
Alimentación	12-24		—	
Consumo	45		—	
Ángulo de apertura horizontal a -3dB	36		—	
Relación delante/atrás	25		—	
Longitud	980		—	
Resistencia al viento	130 km/h	65	130 km/h	92
	160 km/h	92	160 km/h	—
Unidades de embalaje	1	5	1	5
Dimensiones de embalaje	600 x 375 x 170	600 x 400 x 690	600 x 375 x 170	600 x 400 x 690
Temperatura de funcionamiento	-20 ÷ 60			
Peso	2,15	10	2,15	10

CURVA DE GANANCIA



DIPOLO ACTIVO/PASIVO 100% ESTANCO

AUTO ADAPTATIVA

MAX. PROTECCIÓN LTE

ALTA RESISTENCIA

FACILIDAD DE MONTAJE

EMBALAJE UNITARIO COMPACTO

LIGERA, PERO ROBUSTA

AMARRE A MÁSTIL ERGONÓMICO



**DECLARACION DE CONFORMIDAD
DECLARATION DE CONFORMITÉ
DECLARATION OF CONFORMITY
DECLARAÇÃO DE CONFORMIDADE
DICHIARAZIONE DI CONFORMITÀ**

**Decl. N°
121222-01**

Fabricante/ Fabricant/ Manufacturer/ Fabricante/ Produttore : **FAGOR ELECTRONICA, S.COOP.**

Dirección/ Adresse/ Address/ Direção/ Indirizzo : **B° San Andrés s/n - P.O. Box 33
20500 MONDRAGON
(Guipúzcoa) Spain**

NIF / VAT : **F-20 027975**

Declara bajo su exclusiva responsabilidad la conformidad del producto :
Déclare, sous notre responsabilité, la conformité du produit :
Declare under our own responsibility the conformity of the product :
Declara exclusiva responsabilidade a conformidade do producto :
Dichiara sotto la propria responsabilità che il prodotto:

RHOMBUS A/P 48

Según los requerimientos de las Directivas del Parlamento Europeo:
Selon les spécifications des Directives du Parlement Européen :
According to the specifications of directives of the European Parliament:
Com as especificações da Directivas do Parlamento Europeo:
Sotto i requisiti delle direttive del Parlamento Europeo:

EMC	2014/30/EU
LVD	2014/35/EU
ROHS	2011/65/EU
RED	2014/53/EU

Para su evaluación se han aplicado las Normas:
Pour l'évaluation ont été appliqués les Normes:
For the evaluation, the following Standards were applied:
Para a avaliação, as seguintes Normas foram aplicadas:
Per gli standard di valutazione sono stati applicati:

**ETSI EN 303 354 V1.1.1 (2017-03)
EN 60728-11 :2010
EN 50581 :2012**

Fecha: **Apr.2019**

Date:

I.Royo


**Jefe Calidad Tratamiento de Señal
Head of Quality Dept., Signal Processing**

Test report No:
 NIE: 71202REM.002

Test report

EN 55032 (2015) / AC (2016) / A11 (2020): Electromagnetic compatibility of multimedia equipment - Emission requirements.

EN 55035 (2017): Electromagnetic compatibility of multimedia equipment - Immunity requirements.

(*) Identification of item tested	UHF Passive TV Antenna
(*) Trademark	RHOMBUS
(*) Model and /or type reference	P48
Other identification of the product	Not provided data
(*) Features	Not provided data
Manufacturer	FAGOR ELECTRONICA, S.COOP BARRIO SAN ANDRES S/N, 20500 MONDRAGON (GUIPUZCOA)
Test method requested, standard	EN 55032 (2015) / AC (2016) / A11 (2020) EN 55035 (2017)
Summary	N/A
Approved by (name / position & signature)	José Manuel Gómez Industrial & Automotive EMC Lab Manager  Firmado digitalmente por 53680346W JOSE MANUEL GOMEZ (CA.29507456) Fecha: 2022.10.26 16:16:30 +02'00'
Date of issue	2022-05-20
Report template No	FDT08_24 (*) "Data provided by the client"



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Acronyms

Acronym ID	Acronym Description
Code	EMC Test Code
Freq Rng	Frequency Range
MP	Measurement Point
OM	Operation Mode
S/	Sample
V	Verdict

Competences and guarantees

DEKRA Testing and Certification S.A.U. is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification S.A.U. has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification S.A.U. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification S.A.U. at the time of performance of the test.

DEKRA Testing and Certification S.A.U. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
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Uncertainty

Uncertainty (factor $k=2$) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested")
2. The sample consists of UHF Passive TV Antenna, model RHOMBUS P48.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: The client.

Id	Control Number	Description	Model	Serial N°	Date of Reception	Application
S/01	71202_11.1	TV Antenna	RHOMBUS P48	--	2022-02-24	Element Under Test

Notes referenced to samples during the project.

Test sample description

Test Sample description (compulsory information for EMC and RF testing services)

Ports..... :	Port name and description	Cable					
		Specified max length [m]	Attached during test	Shielded	Coupled to patient ⁽³⁾		
	1x Output port	[]	[]	[]		
		[]	[]	[]		
	[]	[]	[]		
	[]	[]	[]		
	[]	[]	[]		
Supplementary information to the ports..... :						
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	[]	AC:	[]	[]	[]	[]	[]
	[]	AC:	[]	[]	[]	[]	[]
	[]	DC:					
[]	DC:						
Rated Power	Not provided data						
Clock frequencies.....	Not provided data						
Other parameters	Not provided data						
Software version	Not provided data						
Hardware version	Not provided data						
Dimensions in cm (W x H x D)	60 x 40 x 17						

Mounting position	<input type="checkbox"/>	Table top equipment		
	<input type="checkbox"/>	Wall/Ceiling mounted equipment		
	<input type="checkbox"/>	Floor standing equipment		
	<input type="checkbox"/>	Hand-held equipment		
	<input checked="" type="checkbox"/>	Other: Mast		
Modules/parts.....	Module/parts of test item		Type	Manufacturer

Accessories (not part of the test item)	Description		Type	Manufacturer

Documents as provided by the applicant	Description		File name	Issue date
	User manual	
	Technical data sheet	

⁽³⁾ Only for Medical Equipment

Identification of the client

FAGOR ELECTRONICA, S.COOP
BARRIO SAN ANDRES S/N,
20500 MONDRAGON (GUIPUZCOA)

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2022-03-24
Date (finish)	2022-03-24

Document history

Report number	Date	Description
71202REM.002	2022-05-20	First release

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: N/A.

Testing verdicts

Fail	F
Inconclusive	I
Not applicable	N/A
Not measured	N/M
Pass	P

Summary

Test Specification.	Requirement – Test case	Verdict	Remark
EN 55032	RE Radiated emission. Electromagnetic field measure	N/A ¹⁾	
EN 55032	CE Continuous conducted emission	N/A ¹⁾	
EN 55035	RI Radiated RF Electromagnetic field immunity test	N/A ¹⁾	
EN 55035	CI Immunity to conducted disturbances, induced by radiofrequency fields	N/A ¹⁾	
EN 55035	EFT Electrical fast transient / burst immunity test	N/A ¹⁾	
EN 55035	SUR Surges immunity test	N/A ¹⁾	
EN 55035	HFI Power frequency magnetic fields	N/A ¹⁾	
EN 55035	VDI Voltage dips and short interruptions	N/A ¹⁾	
EN 55035	ESD Electrostatic discharge immunity test	N/A ¹⁾	

Supplementary information and remarks:

- 1) As the Equipment Under Test is a passive element, this test case is not applicable according to the standard.

Photographs

