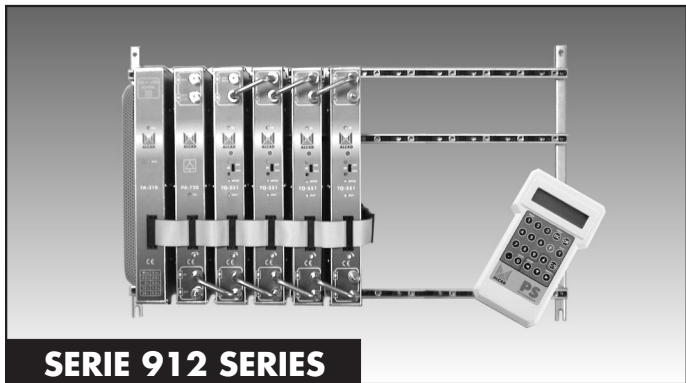




- ▶ TRANSMODULADOR QPSK-QAM
- ▶ QPSK-QAM TRANSMODULATOR
- ▶ TRANSMODULATION QPSK-QAM
- ▶ TRANSMODULADOR QPSK-QAM
- ▶ QPSK-QAM UMSETZER-MODULATOR



**TRANSMODULADOR QPSK-QAM
 QPSK-QAM TRANSMODULATOR
 TRANSMODULATEUR QPSK-QAM
 TRANSMODULATOR QPSK-QAM
 QPSK-QAM UMSETZER-MODULATOR**

CODIGO-CODE-CODE-CODIGO-CODE		9120101
TIPO-TYPE-TYPE-TIPO-TYP		TQ-511
SISTEMA DE TV TV SYSTEM SYSTEME DE TV SISTEMA DE TV TV SYSTEM		DVB-S → DVB-C
RECEPCION QPSK - QPSK RECEIVER - RECEPTEUR QPSK - RECEPTOR QPSK - UMSETZER QPSK		
RANGO DE FRECUENCIAS FREQUENCY RANGE GAMME DE FREQUENCE RANGO DE FRECUENCIAS FREQUENZBEREICH	MHz	950 .. 2150
RESOLUCION DE FRECUENCIA FREQUENCY STEP REGLAGE DE FREQUENCE RESOLUÇÃO DE FREQUÊNCIA FREQUENZEN SCHRITTEN	MHz	1
NIVEL DE ENTRADA INPUT LEVEL NIVEAU D'ENTREE NIVEL DE ENTRADA EINGANGSPEGEL	dB μ V	38 .. 83
	dBm	-70 .. -25
ALIMENTACION LNB LNB POWER SUPPLY ALIMENTATION LNB ALIMENTAÇÃO LNB LNB NETZEIL	V ---	+12
	mA	350 max
VELOCIDAD DE SIMBOLO SYMBOL RATE DEBIT DE SYMBOLES SYMBOL RATE SYMBOL RATE	Mbaud	1 .. 45
F.E.C. F.E.C. F.E.C. F.E.C. F.E.C.		Auto, 1/2, 2/3, 3/4, 5/6, 7/8 DVB: EN 300429
MODULADOR QAM - QAM MODULATOR - MODULATEUR QAM - MODULADOR QAM - QAM MODULATOR		
MODULACION MODULATION MODULATION MODULAÇÃO MODULATION		4 -16 - 32 - 64 - 128 - 256 QAM

TRANSMODULADOR QPSK-QAM
QPSK-QAM TRANSMODULATOR
TRANSMODULATEUR QPSK-QAM
TRANSMODULADOR QPSK-QAM
QPSK-QAM UMSETZER-MODULATOR

CODIGO-CODE-CODE-CODIGO-CODE		9120101			
TIPO-TYPE-TYPE-TIPO-TYP		TQ-511			
ANCHO DE BANDA IF BAND WIDTH LARGEUR DE BANDE FI LARGURA DE BANDA FI ZF BANDBREITE	MHz	9,2 max			
RELACION PORTADORA/RUIDO (C/N) CARRIER/NOISE RATIO (C/N) RAPPORT PORTEUSE/BRUIT (C/N) RELAÇÃO PORTADORA/RUIDO (C/N) SIGNAL-RAUSCHABSTAND (C/N)	dB	> 36			
SAIDA RF - RF OUT - RF SORTIE - SAIDA RF - RF AUSGANG					
RANGO DE FRECUENCIAS FREQUENCY RANGE GAMME DE FREQUENCE RANGO DE FRECUENCIAS FREQUENZBEREICH	MHz	47.. 862			
RESOLUCION DE FRECUENCIA FREQUENCY STEP REGLAGE DE FREQUENCE RESOLUCION DE FRECUENCIA FREQUENZEN SCHRITTEN	MHz	1			
NIVEL DE SALIDA OUTPUT LEVEL NIVEAU DE SORTIE NIVEL DE SAIDA AUSGANGSPEGEL	dB μ V	80 \pm 2,0			
REGULACION NIVEL DE SALIDA OUTPUT LEVEL ADJUST REGLAGE NIVEAU DE SORTIE REGULAÇÃO NIVEL DE SAIDA AUSGANGSPEGELREGELUNG	dB	15			
ESPUREOS EN BANDA SPURIOUS IN BAND SIGNAUX RESIDUELLES ESPUREOS NA BANDA STORSIGNALE IM BEREICH	dB	< 55			
CARACTERISTICAS GENERALES - GENERAL FEATURES - CARCERISTIQUES GENERALES - CARACTERISTICAS GERAIS - HAUPTMERKMALE					
CONECTOR CONNECTOR CONNECTEUR CONECTOR STECKER		F			
ALIMENTACION POWER SUPPLY ALIMENTATION ALIMENTAÇÃO NETZEIL	V \cdots	+3,3	+5	+12	+24
	mA	225	625	100+LNB	-

AMPLIFICADORES BANDA ANCHA
BROADBAND AMPLIFIERS
AMPLIFICATEURS LARGE BANDE
AMPLIFICADORES BANDA LARGA
BREITBANDVERSTÄRKER

CODIGO-CODE-CODE-CODIGO-CODE		9120093
TIPO-TYPE-TYPE-TIPO-TYP		PA-720
SISTEMA DE TV TV SYSTEM SYSTEME DE TV SISTEMA DE TV TV SYSTEM		AM-TV / DVB-T / DVB-C
RANGO DE FRECUENCIAS FREQUENCY RANGE GAMME DE FREQUENCE RANGO DE FRECUENCIAS FREQUENZBEREICH	MHz	40 - 894
GANANCIA GAIN GAIN GANHO VERSTÄRKUNG	dB ± TOL	44 ± 1,0
REGULACION DE GANANCIA GAIN ADJUST REGLAGE DE GAIN REGULAÇÃO DO GANHO VERSTÄRKUNGSGRAD-REGELUNG	dB	15
TEST DE SALIDA OUTPUT TEST POINT SORTIE TEST SAIDA DE TEST TESTAUSGANG	dB ± TOL	-30 ± 1,0
NIVEL DE SALIDA OUTPUT LEVEL NIVEAU DE SORTIE NIVEL DE SAIDA AUSGANGSPEGEL	dB _μ V	119 DIN 45004B 116 (IMD ₃ -60 dB) 110 (IMD ₂ -60 dB)
NIVEL DE SALIDA OUTPUT LEVEL NIVEAU DE SORTIE NIVEL DE SAIDA AUSGANGSPEGEL	dB _μ V	103 CTB -60 dB 104 CSO -60 dB 104 XMOD -60 dB
FIGURA DE RUIDO NOISE FIGURE FACTEUR DE BRUIT FIGURA DE RUIDO RAUSCHMAß	dB	3,5 ± 0,5
ATENUACION ENTRADA EXTENSION EXTENSION INPUT LOSS ATTENUATION A L'ENTRÉE D'EXTENSION ATENUAÇÃO DA ENTRADA DE EXTENSÃO DAMPFUNG EXTERNER EINGANG	dB ± TOL	0 ± 2,0

DIN 45004B: 3 unequal carriers, IMD₃ at 60 dB
IMD₃ -60 dB: 2 equal carriers, EN 50083-3
IMD₂ -60 dB: 2 equal carriers, EN 50083-3

CTB -60 dB: 42 equal carriers, EN 50083-3
CSO -60 dB: 42 equal carriers, EN 50083-3
XMOD -60 dB: 42 equal carriers, EN 50083-3

AMPLIFICADORES BANDA ANCHA
BROADBAND AMPLIFIERS
AMPLIFICATEURS LARGE BANDE
AMPLIFICADORES BANDA LARGA
BREITBANDVERSTÄRKER

CODIGO-CODE-CODE-CODIGO-CODE		9120093			
TIPO-TYPE-TYPE-TIPO-TYP		PA-720			
ALIMENTACION POWER SUPPLY ALIMENTATION ALIMENTAÇÃO NETZTEIL	V \cdots	+24			
	mA	320			

ALIMENTADOR
POWER SUPPLY
ALIMENTATION
ALIMENTAÇÃO
NETZTEIL

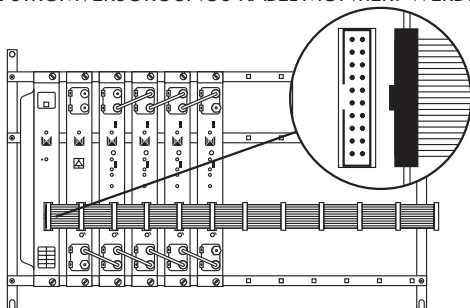
CODIGO-CODE-CODE-CODIGO-CODE		9120046			
TIPO-TYPE-TYPE-TIPO-TYP		FA-310			
TENSION DE SALIDA OUTPUT VOLTAGE TENSION DE SORTIE TENSÃO DE SAÍDA AUSGANGSPEGEL	V \cdots	+3,3	+5,0	+12	+24
	mA	5500	2500	1500	500
TENSION DE RED MAINS VOLTAGE TENSION SECTEUR TENSÃO DE REDE EINGANGSSPANNUNG	V \sim	230 \pm 20%		50/60 Hz	
CONSUMO RED MAINS CONSUMPTION TENSION SECTEUR TENSÃO DE REDE LEISTUNGS-AUFNAHME	VA	125			

EQUIPO COMPLETO
COMPLETE SYSTEM
EQUIPO COMPLETO
EQUIPAMENTO COMPLETO
KOMPLETTES SYSTEM

TEMPERATURA DE FUNCIONAMIENTO OPERATING TEMPERATURE TEMPERATURE DE FONCTIONNEMENT TEMPERATURA DE FUNCIONAMENTO BETRIEBSTEMPERATUR	°C	-10..+45			
INDICE DE PROTECCION PROTECTION INDEX INDICE DE PROTECTION INDICE DE PROTECÇÃO SCHUTZKLASSE		IP 20C			

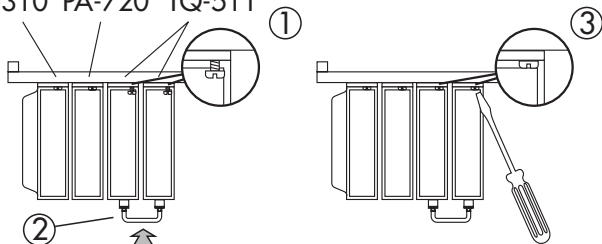
- ▶ Programable con el programador PS-003 ver. 2.0 y posteriores
- ▶ Programmable with programmer PS-003 version 2.0 and later
- ▶ Programmable avec le programmeur PS-003 ver. 2.0 et ultérieures
- ▶ Programável com o programador PS-003 ver. 2.0 e posteriores
- ▶ Mit dem PS-003 programmierbar version 2.0 und höher

- ▶ COMO INSERTAR EL CABLE DE ALIMENTACION
- ▶ HOW TO INSERT THE SUPPLY CABLE
- ▶ COMMENT INSERER LE CABLE D'ALIMENTATION
- ▶ COMO INSERIR O CABO DE ALIMENTAÇÃO
- ▶ WIE DIE STROMVERSORGUNGS-KABEL MONTIERT WERDEN

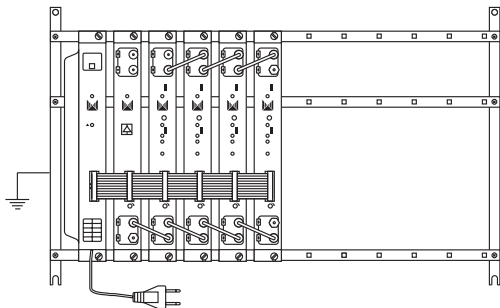


- ▶ COMO INSERTAR LOS PUENTES
- ▶ HOW TO INSERT CONNECTION BRIDGES
- ▶ COMMENT INSERER LES PONTETS
- ▶ COMO INSERIR AS PONTEÇ PARA CONEXÃO
- ▶ WIE DIE VERBINDUNGSBRÜCKEN MONTIERT WERDEN

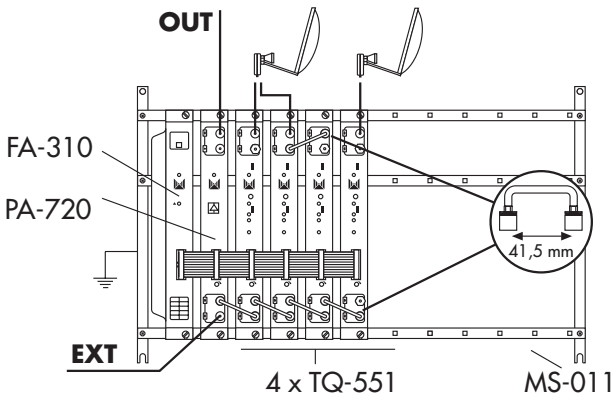
FA-310 PA-720 TQ-511



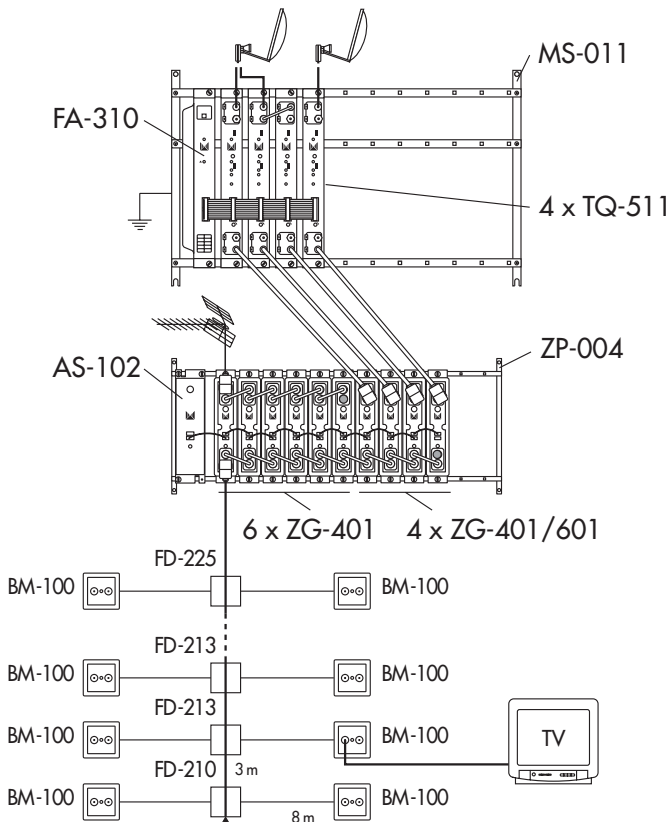
- ▶ CONEXION A LA RED ELECTRICA
- ▶ CONNECTION TO THE MAINS
- ▶ CONNEXION AU RESEAU ELECTRIQUE
- ▶ CONEXÃO A REDE ELETRICA
- ▶ NETZANSCHLUSS



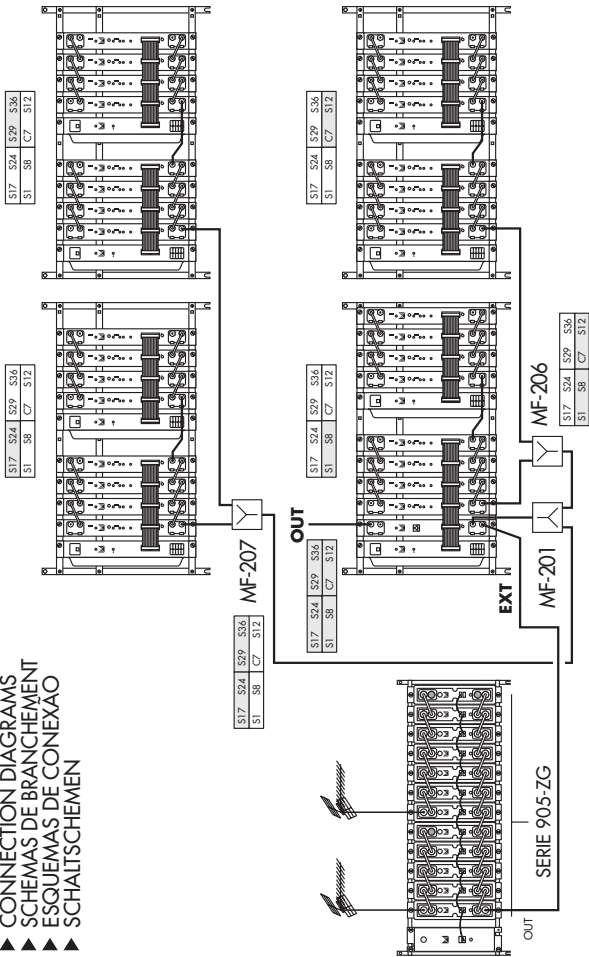
- ▶ AMPLIFICACION BANDA ANCHA
- ▶ BROADBAND AMPLIFICATION
- ▶ AMPLIFICATION LARGE BANDE
- ▶ AMPLIFICAÇÃO BANDA LARGA
- ▶ BANDBREITE VERSTÄRKUNG



- ▶ AMPLIFICACION MONOCANAL
- ▶ MONOCHANNEL AMPLIFICATION
- ▶ AMPLIFICATION MONOCANAL
- ▶ AMPLIFICAÇÃO MONOCANAL
- ▶ EINKANAL VERSTÄRKUNG



▲ ESQUEMAS TÍPICOS
 ▲ CONNECTION DIAGRAMS
 ▲ SCHEMAS DE BRANCHEMENT
 ▲ ESQUEMAS DE CONEXAO
 ▲ SCHALTSCHEMEN





DECLARATION OF CONFORMITY

according to EN 45014

Manufacturer's Name: ALCAD, S.A.
Manufacturer's Address: Pol. Ind. Arreche-Ugalde, 1
Apdo. 455
20305 IRUN (Guipúzcoa)
SPAIN

declares that the product

Product Name: 912 Series: TRANSMODULATION SYSTEM
Model Number(s): TQ-511, PA-720, FA-310

Product Option(s): INCLUDING ALL OPTIONS

is in conformity with:

Safety: EN50083-1

EMC: EN 50083-2, EN 50081-1 Electromagnetic Compatibility for Equipment
IEC 61000-4-2:1995 / EN 50082-1:1997 ESD 15KV AD, 8KV CD.
IEC 61000-4-4:1995 / EN 50082-1:1997 EFT 4KV-2,5KHz Power Lines.
IEC 61000-4-5:1995 / EN 50082-1:1997 CWG 2KV Power Lines.
IEC 61000-4-11:1994 / EN 50082-1:1997 Dips and Variation.

Technical Features : EN 50083-5 / EN 50083-3

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/ECC, and the EMC Directive 89/336/EEC and their relevant amendments, gathered under the directives 93/68/EEC.

Note: to comply with these directives, do not use the products without covers and operate the system as specified.



Irún,

24-09-03

Date

Antton Galarza / General Manager



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ISO 9001

