



- ▶ TRANSMODULADOR QPSK-PAL (CAM)
- ▶ QPSK-PAL TRANSMODULATOR (CAM)
- ▶ TRANSMODULATION QPSK-PAL (CAM)
- ▶ TRANSMODULADOR QPSK-PAL (CAM)
- ▶ QPSK-PAL UMSETZER-MODULATOR (CAM)



TRANSMODULADOR QPSK-PAL
QPSK-PAL TRANSMODULATOR
TRANSMODULATEUR QPSK-PAL
TRANSMODULADOR QPSK-PAL
QPSK-PAL UMSETZER-MODULATOR

CODIGO-CODE-CODE-CODIGO-CODE		9120066		
TIPO-TYPE-TYPE-TIPO-TYP		TP-561		
SISTEMA DE TV TV SYSTEM SYSTEME DE TV SISTEMA DE TV TV SYSTEM		DVB-S → AM-TV PAL B/G CCIR	DVB-S → AM-TV PAL I UK	DVB-S → AM-TV PAL D/K OIRT
AUDIO AUDIO AUDIO AUDIO AUDIO		MONO/STEREO/DUAL (ANALOGUE)	MONO	MONO
RECEPTOR QPSK - QPSK RECEIVER - RECEPTUR QPSK - RECEPTOR QPSK - UMSETZER QPSK				
RANGO DE FRECUENCIAS FREQUENCY RANGE GAMME DE FREQUENCE RANGO DE FRECUENCIAS FREQUENZBEREICH	MHz	920 - 2150		
RESOLUCION DE FRECUENCIA FREQUENCY STEP REGLAGE DE FREQUENCE RESOLUCAO DE FREQUENCIA 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 $\ddot{=}$	+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		
ACCESO CONDICIONAL - CONDITIONAL ACCESS - ACCES CONDITIONNEL - ACCESSO CONDIZIONALE - ANHÄNGIGER ZUGRIFF				
COMPATIBILIDAD COMPATIBILITY COMPATIBILITE COMPATIBILIDADE KOMPATIBILITÄT		Viaccess, Mediaguard, Videoguard, Seca, BetaCrypt, Nagravision, Irdeto, Cryptworks, Conax DVB: EN 50221		

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

CODIGO-CODE-CODE-CODIGO-CODE		9120066		
TIPO-TYPE-TYPE-TIPO-TYP		TP-561		
MODULADOR RF - RF MODULATOR - MODULATEUR RF - MODULADOR RF - RF MODULATOR				
RANGO DE FRECUENCIAS FREQUENCY RANGE GAMME DE FREQUENCE RANGO DE FRECUENCIAS FREQUENZBEREICH	MHz	46 - 894		
RESOLUCION DE FRECUENCIA FREQUENCY STEP REGLAGE DE FREQUENCE RESOLUÇÃO DE FREQUÊNCIA FREQUENZEN SCHRITTEN	MHz	0,25		
CANAL DE SALIDA OUTPUT CHANNEL CANAL DE SORTIE CANAL DE SAIDA AUSGANGSKANAL		2..4 5..12 21..69 S1..S41	2..4 5..12 21..69 S1..S41	R1..R4 R5..R12 21..69 S1..S41
MODULACION MODULATION MODULATION MODULAÇÃO MODULATION		BLV VSB BLR BLV RESTSEITENBAND	Permite el uso de canales adyacentes Allows the use of adjacent channels Permet l'utilisation de canaux adjacents Permite o uso de canais adjacentes Erlaubt die benutzung von jedem	
NIVEL DE SALIDA OUTPUT LEVEL NIVEAU DE SORTIE NIVEL DE SAIDA AUSGANGSPEGEL	dB μ V \pm TOL	85 \pm 2,0		
REGULACION NIVEL DE SALIDA OUTPUT LEVEL ADJUST REGLAGE NIVEAU DE SORTIE REGULAÇÃO NIVEL DE SAIDA AUSGANGSPEGELREGELUNG	dB	15		
PERDIDAS DE PASO EN LA MEZCLA THROUGH LOSS IN THE MIXTURE PENTES DE PASSAGE DANS LE COUPLAGE PERDAS DE PASSAGEM NA MISTURA DURCHGANGSDAMPFUNG GESAMT	dB \pm TOL	0,9 \pm 0,1		
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	58		
ALIMENTACION POWER SUPPLY ALIMENTATION ALIMENTAÇÃO NETZEIL	V \cdots	+3,3	+5,0	+12
	mA	800	450+CAM	120+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 REGULACAO 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 _{μV}	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 _{μV}	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

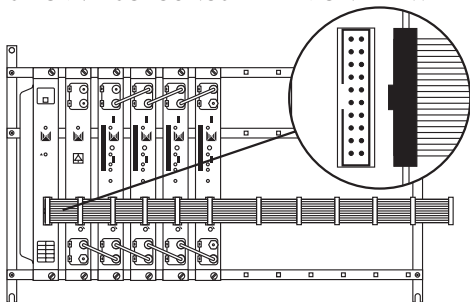
CODIGO-CODE-CODE-CODIGO-CODE		9120046			
TIPO-TYPE-TYPE-TIPO-TYP		FA-310			
TENSION DE SALIDA OUTPUT VOLTAGE TENSION DE SORTIE TENSÃO DE SAÍDA AUSGANGSPEGEL	V \cdots	+3,3	+5,0	+12	+24
	mA	5500	2500	1500	500
TENSION DE RED MAINS VOLTAGE TENSION SECTEUR TENSÃO DE REDE EINGANGSSPANNUNG	V \sim	230 \pm 20%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

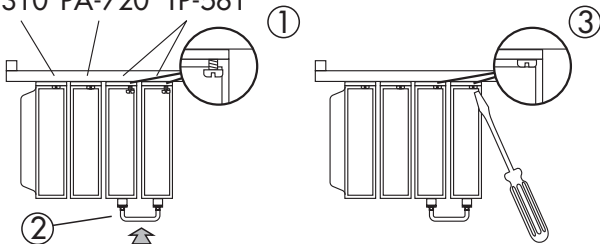
- ▶ Programable con el programador PS-003 ver. 1.3 y posteriores
- ▶ Programmable with programmer PS-003 version 1.3 and later
- ▶ Programmable avec le programateur PS-003 ver. 1.3 et ultérieures
- ▶ Programável com o programador PS-003 ver. 1.3 e posteriores
- ▶ Mit dem PS-003 programmierbar version 1.3 und höher

- ▶ COMO INSERTAR EL CABLE THE 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

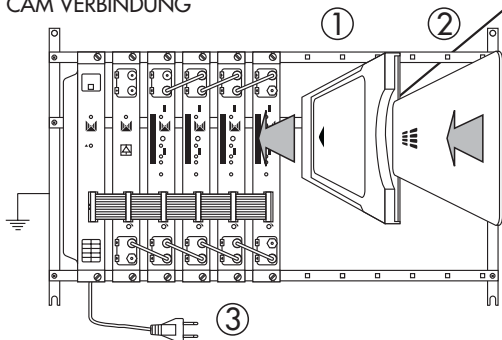
FA-310 PA-720 TP-561



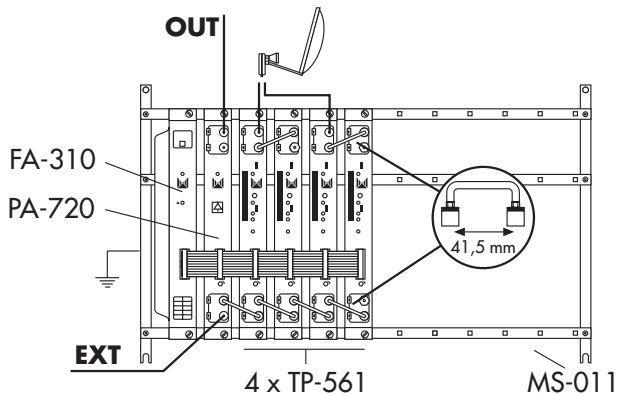
- ▶ CONEXION DEL CAM
- ▶ CAM CONNETION
- ▶ CONNEXION DU CAM
- ▶ CONEXÃO DA CAM
- ▶ CAM VERBINDUNG

**CAM NO INCLUIDA
CAM NOT INCLUDED
CAM NON INCLUS
CAM NAO INCLUIDA
CAM NICHT BEIGEFUGT**

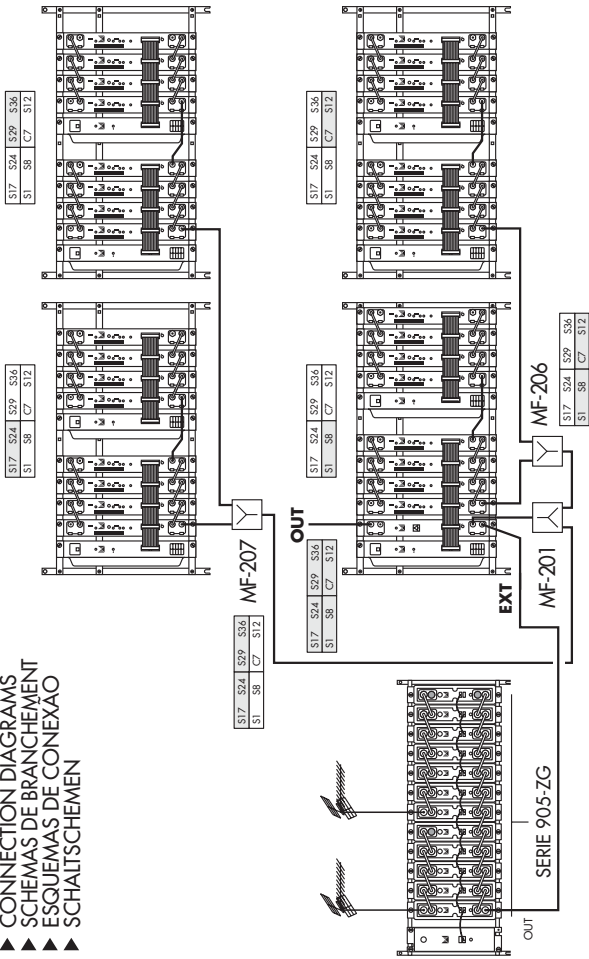
Viaccess
Mediaguard
Videoguard
Seca
BetaCrypt
Nagravision
Irdeto
Cryptworks
Conax
...



- ▶ AMPLIFICACION BANDA ANCHA
- ▶ BROADBAND AMPLIFICATION
- ▶ AMPLIFICATION LARGE BANDE
- ▶ AMPLIFICAÇÃO BANDA LARGA
- ▶ BANDBREITE 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): TP-561, 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 15 KV AD, 8 KV CD.
IEC 61000-4-4:1995 / EN 50082-1:1997 EFT 4 KV- 2,5 KHz Power Lines.
IEC 61000-4-5:1995 / EN 50082-1:1997 CWG 2 KV 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,

06-10-03

Date

Antton Galarza / General Manager



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ISO 9001

