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PROLINK-3/3C Premium

The of uniting PROMAX result ELECTRONICA's long experience in the design of TV signal analysers with the technological latest progress, in the PROLINK-3/3C Premium brings together the functions installers seek most, all in one small, light weight, portable instrument.

CONFIGURATION FOR MEASURING LEVEL AND POWER

TUNING Tuning modes Resolution 5-862 MHz 900-2150 MHz

Automatic search

Memory

Digital frequency synthesis. Continuous tuning from 5 to 862 MHz and from 900 to 2150 MHz Frequency, Channel or Memory. Channel plan configurable on demand

50 kHz 500 kHz 50 kHz

Threshold level selectable 99 positions for measurement configurations

RF INPUT Impedance Connector Maximum signal Maximum input voltage DC to 100 Hz

75 Ω
Universal, with BNC or F adapter
130 dBµV
50 V rms (powered by the AL-103 power charger)
30 V rms (not powered by the AL-103 power charger)
130 dBµV

5 MHz to 2150 MHz

MEDIDA DE NIVEL

Measurement range Terrestrial TV & FM ban	ds 20 dBμV to 120 dBμV (10 μV to 1 V)
Satellite TV band	30 dBµV to 120 dBµV (31.6 µV to 1 V)
Reading	Auto-range, reading is displayed on an OSD window
Digital	Absolute value calibrated in dBµV, dBmV or dBm
Analogue	Relative value through an analogue bar on the screen
Measurement bandwidth	230 kHz (Terrestrial band) + 4 MHz (Satellite band) (maximum band ripple 1 dB).
Audible indicator	LV audio. A tone with pitch proportional to signal strength.
Accuracy	
Sub-band	± 1.5 dB (30-120 dBµV, 5-45 MHz) (22ºC ± 5ºC)
Terrestrial bands	± 1.5 dB (30-120 dBµV, 48,25-861 MHz) (22ºC ± 5ºC)
Satellite band	± 1.5 dB (40-100 dBµV, 900-2150 MHz) (22ºC ± 5ºC)
Overrange indication	↑, ↓



PROLINK-3/3C Premium

MEASUREMENTS IN TV MODE

Terrestrial bands Analogue channels Digital channels	Level, Video-Audio ratio and Carrier-Noise ratio (Auto and Referenced) Channel power (Auto) and Carrier-Noise ratio (Auto and Referenced)
Satellite band Analogue channels Digital channels	Level and Carrier-Noise ratio (Auto and Referenced) Channel power (Auto) and Carrier-Noise ratio (Auto and Referenced)
DATALOGGER function	Automatic acquisition of up to 9801 measurements

SPECTRUM ANALYSER MODE

Satellite band Terrestrial bands Measurement bandwidth	20 dBμV to 120 dBμV (10 μV to 1 V) 20 dBμV to 120 dBμV (10 μV to 1 V)
Terrestrial Satellite	50 kHz, 230 kHz, 1 MHz selectable 50 kHz, 230 kHz, 4 MHz selectable
Span	
Terrestrial Satellite	Full span (full band), 500, 200, 100, 50, 32, 16, 8 MHz selectable Full span (full band), 500, 200, 100, 50, 32, 16, 8, 4 MHz selectable
Markers	2 with level, frequency, level difference and frequency difference indications
Detection	By peak or average
Measurements	
Terrestrial bands	- Level and Operation Maine and in (Defense and I)
Digital channels	Level and Carrier-Noise ratio (Referenced) Channel power (Integration method) and Carrier-Noise ratio (Referenced)
Satellite band Analogue channels Digital channels	Level and Carrier-Noise rate (Referenced) Channel power (Integration method) and Carrier-Noise ratio (Referenced)

MONITOR DISPLAY

Monitor	TFT colour 5 inches (PROLINK-3C <i>Premium</i>) B & W 4 ½ inches (PROLINK-3 <i>Premium</i>) .
Colour system	PAL, SECAM and NTSC
TV standard	M, N, B, G, I, D, K and L
Synchronism and Burst	Graphic representation over the picture
Spectrum mode	Variable span dynamic range, and reference level
Sensibility	40 dBµV for correct synchronism
Synchronism 50/60 Hz	Automatic selection according to the system

BASE BAND SIGNAL

VIDEO External video input Sensibility Video output	Scart (automatic or selectable) 1 Vpp (75 Ω) positive video Scart (75 Ω)
SOUND Input Outputs Demodulation De-emphasis Subcarrier Variable Fixed Terrestrial Satellite	Scart Built in speaker, Scart AM, FM, TV and NICAM (for PAL B/G, PAL I and SECAM L standards), selectable 50 μs Digital frequency synthesis From 4 to 9 MHz, 10 kHz resolution According to the active standard: 4.50 - 5.50 - 5.74 - 6.00 - 6.26 - 6.50 - AM - FM - LV - OFF. 5.80 - 6.50 - 6.65 - 6.80 - 7.02 - LV - OFF



CONFIGURATION FOR MEASURING DIGITAL PARAMETERS

(ACCORDING INSTALLED OPTIONS)

TUNING COFDM Resolution QAM Resolution QPSK Resolution	From 40 to 870 MHz. 166 kHz (BW = 8 MHz) / 125 kHz (BW = 7 MHz and 6 MHz). From 47 MHz to 862 MHz. 50 kHz. From 950 MHz to 2150 MHz. 500 kHz.
LEVEL RANGE COFDM QAM QPSK	45 dBμV to 100 dBμV. 45 dBμV to 110 dBμV. 44 dBμV to 114 dBμV.
IMPEDANCE	75 Ω

MEASUREMENTS

COFDM Parameters Presentation	BER after Viterbi. MER selectable. CSI (Channel Status Information) selectable. Qualitative measurement about channel quality. Measures from 0 to 100 %. 0 % value corresponds to maximum quality. Numeric and level bar.
QAM	
Parameters	BER before FEC (Forward Error Correction).
MER (Modulation Error Ration Presentation	b) Numeric and level bar.
QPSK	
Parameters	BER before Viterbi. BER after Viterbi.
Presentation	Numeric and level bar.
WRONG PACKETS	Number of non-correctable packets accumulated during the measurement time, and indicates when the fault was produced. Identification according to levels 1.1, 1.2, 1.3 and 2.1 of TR 101 290 ETSI standard.
DCI FUNCTION	DVB channel identifier. Provides information on the channel whose BER is being measured.

COFDM SIGNAL PARAMETERS

Carriers	2k / 8k (Selected by the user).
Guard Interval	1/4, 1/8, 1/16, 1/32 (Selected by the user).
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8.
Modulation	QPSK, 16-QAM, 64-QAM.
Spectral inversion	Selectable: ON, OFF.
Hierarchy	Indicates hierarchy mode.
FEC	Reed-Solomon (204, 188) and Viterbi.



QAM SIGNAL PARAMETERS

Demodulation	16/32/64/128/256 QAM.
Simbol rate	1000 to 7000 kbauds.
Carrier frequency deviation	±0.08 x Symbol rate.
Roll-off (α) factor	
of Nyquist filter	0.15.
Spectral inversion	Selectable: ON, OFF

QPSK SIGNAL PARAMETERS

Bandwidth IQ signals Simbol rate Carrier frequency	variable: 10 MHz to 30 MHz in 2.5 MHz steps. 2 to 45 Mbauds.
deviation Roll-off (α) factor	±0.05 x Symbol rate.
of Nyquist filter Code Rate Spectral Inversion	0.35. 1/2, 2/3, 3/4, 5/6, 7/8 and AUTO. Selectable: ON, OFF

VIDEO

Format Conditional access	MPEG-2 / DVB (MP@ML).
types	Uncoded FTA standard.

TELETEXT

Decodes at 1.5 level

RS-232C INTERFACE

EXTERNAL UNITS POWER	
SUPPLY	Through the RF input connector
Terrestrial	External or 13/15/18/24 V
Satellite	External or 13/15/18 V
22 kHz signal	Selectable
Voltage	0.6 V ± 0.2 V
Frequency	22 kHz ± 4 kHz
Maximum power	5 W

DiSEqC GENERATOR

According to DiSEqC 1.2 standard



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POWER SUPPLY

Internal	
Batteries	7.2 V 11 Ah Li-Ion battery
Autonomy	> 2 hours in continuous mode.
Recharging time	4 hours starting of completely discharged (instrument off).
External	
Voltage	12 V
Consumption	51 W
Auto power off	After 15 minutes without operating on any control. Deactivable.

OPERATING ENVIRONMENTAL CONDITIONS

AltitudeUp to 2000 mTemperature rangeFrom 5 to 40 ° C (automatic disconnection by excess of temperature)Max. relative humidity80 % (up to 31°C), decreasing lineally up to 50% at 40° C.

MECHANICAL FEATURES

Dimensions	294 (W) x 100 (H) x 274 (D) mm (without holster)
Weight	5 kg

INCLUDED ACCESSORIES

1x 1x	CB-047 (or equivalent) AD-055	Rechargeable Li+ battery 7.2 V, 11 Ah "F"/F-BNC/F adapter
1x	AD-056	"F"/F-"DIN"/F adapter
1x	AD-057	"F"/F-"F"/F adapter
1x	AL-103	External DC charger
1x	DC-261	Carrying bag
1x	AA-103	Car lighter charger
1x	CA-005	Mains cord

OPTIONAL ACCESSORIES

CI-23	Portable printer
RM-104	Remote control software
RM-204	Monitoring and alarm software
RM-304	Monitoring and alarm system via SMS

OPTIONS

OP-003-Q OP-003-O	Digital parameters measurement for DVB-S (Satellite) signals (QPSK modulation). Digital parameters measurement for DVB-S (Satellite)
	and DVB-T (Terrestrial) signals (QPSK and COFDM modulations).
OP-003-F	Digital parameters measurement for DVB-S (Satellite) and DVB-C (Cable) signals (QPSK and QAM modulations).
OP-003-D	Digital parameters measurement for DVB-S (Satellite), DVB-T (Terrestrial) and DVB-C (Cable) signals (QPSK, COFDM and QAM modulations).
OP-003-G	DVB-MPEG2 digital signal decoding. (It requines some of the previons options).