

PROFI-70 WIRELESS ANALYZER

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The **PROFI-70** is an analyser of **local area wireless networks (WLAN)**. (**WI-FI Wireless Fidelity** networks that fulfills the IEEE standard 802.11b and 802.11g). These types of communication networks have been widely deployed, due to the facility of development and the comfort to access to them. But, thus they operate in a free-band; these networks require a continuous and accurate control of the broadcasting cover, including as well the analysis of the interferences as the control of the access security.

In the design of the **PROFI-70** special care has been taken to create a practical, accurate, yet easy-to-use device. A simple alphanumeric keypad including soft-keys facilitates direct access to the various operating modes. Once accessed, ambidextrous navigation and selection keys can be used to easily modify any parameter of the measurements.

Additionally, it has a **RS-232 interface** for connection to a printer or computer to generate reports on the measurements performed.

The instrument is powered by means of an internal rechargeable battery.

The integration of all of these functions in a device that weights less than 1.5 kg, with ergonomic, robust design, make the **PROFI-70** an unbeatable fieldwork tool.

SPECIFICATIONS

TUNING

Tuning range	From 2412 to 2484 GHz (ISM band).
Tuning mode	By channels.
Channel plan	(CH1 - CH14) (IEEE 802.11 / 802.11b/g standard).
Sensibility	- 90 dBm.
Indication	Panoramic graphical LCD with automatic back lighting.

LEVEL MEASUREMENT

Measurement	Power measurement in the channel bandwidth by detection method.
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Input A

Measuring range	From -90 to -20 dBm.
Maximum input level	+10 dBm ⁽¹⁾

Input B

Measuring range	From -40 to +30 dBm.
Maximum input level	+30 dBm ⁽¹⁾

Readout Digital in dBμV, dBmV or dBm. 1 dB resolution.

Wait time for packets From 50 to 10.000 ms (in 50 ms steps)

IF bandwidth 22 MHz

Input connectors SMA female 50 Ω

DATALOGGER FUNCTION

Max. number of loggers	10
Measurements	Channel, SSID, MAC, Power and Signal/Noise ratio.

SCAN

Span 100 MHz (14 channels).

Dynamic range 70 dB



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POWER SUPPLY

NiMh battery	12 V – 1.4 Ah.
Low battery indication	Graphic indication on the display
Autonomy	Approximately 3 hours.
Battery charge	By fast internal charger.
Mains to charger adapter	100 V – 240 V AC / 50-60 Hz / 12 V DC (EUROPE and other countries).

ENVIRONMENTAL CONDITIONS

Altitude	Up to 2000 metres.
Temperature range	From 5 °C to 40 °C.
Maximum relative humidity	80 % (up to 31 °C), decreasing lineally up to 50% at 40 °C.

MECHANICAL FEATURES

Dimensions	160 W x 230 H x 50 D mm
Weight	1.4 kg. (including battery and protective bag)

INCLUDED ACCESSORIES

AL-103	DC external adapter
AA-103	Car lighter adapter cable.
AM-070	SMA antenna 2.4 GHz 5 dBi (female 50Ω)
CC-039	SMA standard connection cable. Male-female (25 cm). (Typical forward loss: 1.6 dB @ 2.45 GHz)
FD-90	Protective carrying bag.
CA-005	Mains cord

OPTIONAL ACCESSORIES

CI-023	Portable serial printer.
CC-208	Data transfer cable to PC or printer.
RM-070	Remote control software for PROFI-70.

- (1) Because of safety reasons, the maximum input power over the entire band is limited up to +30 dBm. The equivalent power level for a group of channels of similar levels is related with the input power level over the entire band according to the following expression:
- $$LT = L + 10 \log N$$
- (LT: total level, L: mean level of one channel, N: number of channels present).
- For higher input power levels, the use of an external attenuator of 20 dB is recommended.