

RADIO SPECTRUM ANALYSER



The AE-266 is a portable spectrum analyser with specific applications to measure narrowband radio channels (12.5 kHz spacing) which are used by radio links of electric power companies to transmit its own network data (pricing, maintenance control...).

It also combines a stage for spectral measurement of signals used in PLC systems.



- ✓ **Band: 50 - 1020 MHz (radio input)**
- ✓ **Band: 2 - 50 MHz (PLC input)**
- ✓ **Level: -100 dBm to 10 dBm**
- ✓ **Resolution: 100 Hz**
- ✓ **Measurement resolution filter: 6 kHz, 100 kHz and 230 kHz**
- ✓ **Spans: min. 100 kHz, max. 100 MHz**
- ✓ **Tuning by frequency or channel.**
- ✓ **Level accuracy: ± 1 dB**
- ✓ **Frequency accuracy: ± 5 kHz**
- ✓ **50 Ω N connectors**
- ✓ **USB connector for data transfer to PC and firmware updates**
- ✓ **4 h battery operation time**

RADIO SPECTRUM ANALYSER

SPECIFICATIONS	AE-266 RADIO SPECTRUM ANALYSER	
	RADIO (RF) OPERATING MODE	PLC OPERATING MODE
TUNING Frequency range Tuning modes Channel plan Resolution Indication Center frequency offset Measurement resolution filter	From 50 MHz to 1020 MHz Channel or frequency Configurable 1 kHz Dot matrix LCD 6 kHz, 100 kHz and 230 kHz	From 2 to 50 MHz Channel or frequency 10 kHz Dot matrix LCD ± 2 MHz (10 kHz resolution) 6 kHz, 100 kHz and 230 kHz
LEVEL MEASUREMENT Measuring range Input max. level Reading Accuracy Resolution IF bandwidth Impedance input	Peak value of the central tuning frequency From -50 to -100 dBm ⁽¹⁾ 0 dBm dB μ V, dBm or dBm ± 0.5 dB	Bandwidth power measurement by means of integration method From -80 dBm to 20 dBm +25 dBm Digital (dBm, dBm/Hz) and analog (graphic bar) ± 3 dB ⁽²⁾ 1 dB 200 kHz ± 50 kHz 50 Ω
SIGNALS MEASUREMENT Channel bandwidth Frequency resolution	Configurable: 12.5 kHz and 25 kHz 1 kHz	Configurable 10 kHz
C/N RATIO MEASUREMENT Measuring range Accuracy	From 0 to -60 dB ± 2 dB	> 30 dB for input level, > -40 dBm ± 2 dBm
SCAN Variable span Variable reference level	12,5 kHz, 25 kHz and 12 MHz From -60 to -10 dBm (10 dB steps)	10 MHz, 30 MHz and full band From -60 to -10 dBm (10 dB steps)
SPECTRUM ANALYSER Span Reference level Analysis band Detector Bandwidth Resolution Peak detector Average detector	From 100 kHz min. up to full span (2 - 50 MHz) From -60 dBm to 10 dBm 2 - 50 MHz Peak, Average and Max hold 6 kHz, 100 kHz and 230 kHz 100 Hz Span 50 MHz, span 30 MHz, span 15 MHz, span 5 MHz and span 1 MHz Span 30 MHz, span 15 MHz, span 5 MHz and span 1 MHz	
INPUT CONNECTORS	N-type connectors	
POWER SUPPLY Battery operation time Auto power off	Rechargeable internal batteries or AC supply 4 h. min Automatic power off after 10 minutes without pressing any key	

(1) For 12.5 kHz bandwidth channels, in a temperature range from 0 to 40 °C.

(2) For 2.5 MHz bandwidth channels, in a temperature range from 0 to 40 °C.