

# Dynamic Signal Strength Meter

## DSSM1C (16GHz)

An ultra-wideband RF signal strength meter capable of detecting and analysing continuous or pulsed radio signals.

The DSSM1C is a high performance version of the DSSM1A extending capability to cover Ultra-Wideband (UWB) transmissions.

The device features an extended frequency response, high sensitivity with adjustable gain, audio output (AM Demodulation or Tone with adjustable squelch and volume) and an illuminated backlit display.

Since modern RF devices often transmit very short duration pulses, their signal can easily be missed by a traditional spectrum analyser or analogue signal strength meter. Whereas, the fast response of the DSSM1C allows it to detect almost any RF signal from 3MHz to 16GHz irrespective of its nature.

As well as the DSSM1C's ability to detect short RF pulses, its scrolling time-domain display reveals superimposed signals that would otherwise be invisible to a spectrum analyser or traditional signal strength meter.

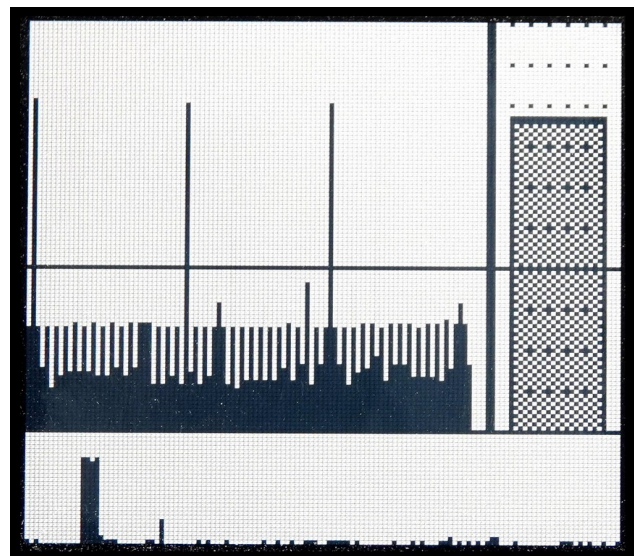
To summarise, the DSSM1C is an instrument that can discriminate between different signals, even when they occupy the same frequency band, including Time Division Multiple Access (TDMA) systems such as Wi-Fi, GSM, DECT, Bluetooth and UWB.

### Features

- ◆ Wideband Response 3MHz-16GHz <sup>1</sup>
- ◆ High Dynamic Range (50dB)
- ◆ Adjustable Gain (+/- 15dB)
- ◆ Accurate Logarithmic Scale
- ◆ Detects Fast Pulsed Signals
- ◆ Audio Output & Squelch function <sup>2</sup>
- ◆ Detects superimposed signals
- ◆ Graphic Display with Backlight
- ◆ Low Cost and Compact Size
- ◆ Powered by 2 x AA

### Applications

- ◆ RF Engineering
- ◆ Signal Analysis



### Specifications

Unless otherwise stated: Test Frequency = 1GHz, Battery = E91 Alkaline (x2), No signal input, temperature = 20°C, Gain = +15dB.

Parameter	Min	Typ	Max	Units
Frequency Range <sup>1</sup>	3MHz		16GHz	
Amplitude Range	-60		-10	dBm
Absolute Accuracy 100MHz to 12GHz		+/- 5		dB
Maximum Signal		10		dBm
Measurement Rate		100		kHz
Battery Life		5		Hours
Dimensions	38W x 24.5H x 109L			mm

Note. Specifications are subject to change without notice.

WARNING. To protect your hearing, use this equipment at the minimum volume possible. Listening to audio at high levels for extended periods is known to cause permanent hearing damage.

1. Frequency Range defined as +5/-10dB sensitivity variation.
2. Recommended for use with Sennheiser HD25 headphones.