



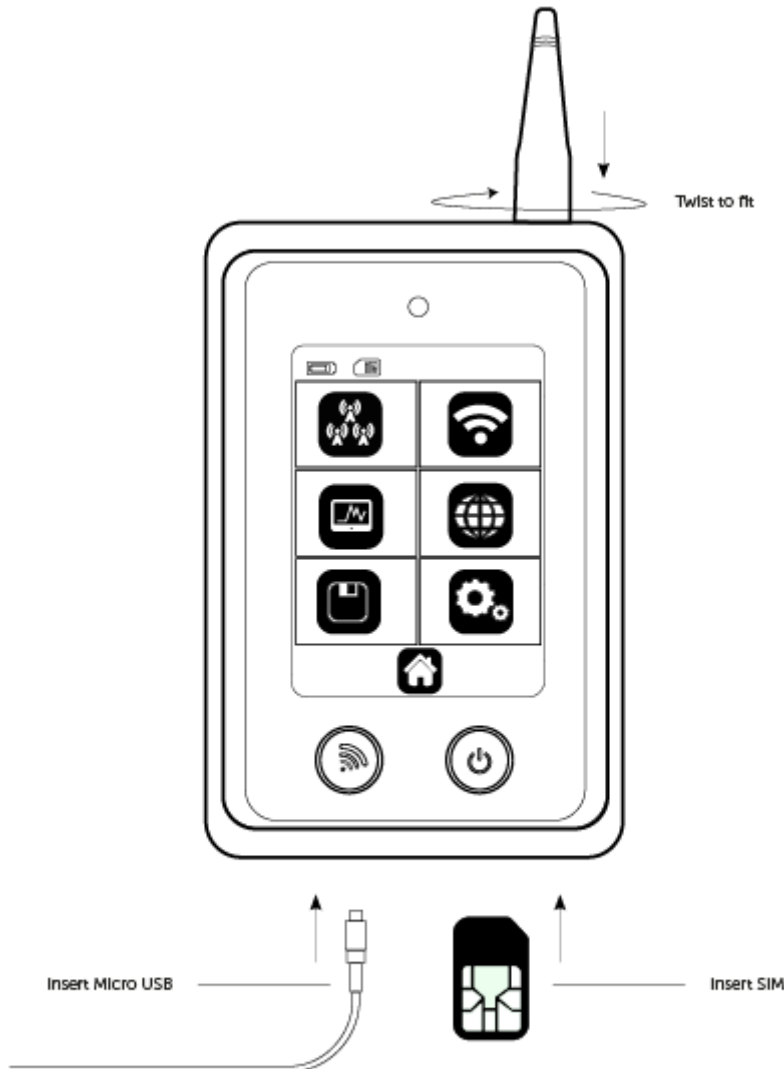
SIGNAL ANALYSER

TECHNICAL SPECIFICATIONS

Signal Analyser

Technical Specifications

Figure 1 - Signal Analyser Diagram



RSSL EXPLANATION

To ensure that a consistent approach is used to all Radio Access Technologies (RAT) - such as 2G, 3G and 4G - a new, more accurate method for calculating percentage of the signal strength has been introduced. The RSSL is not based on CSQ readings alone provided by the radio module, but is calculated from the raw data received from the network readings. The value is mapped through the whole range and is consistent across each RAT. The value calculation includes both signal strength and signal quality measurements.

The example of such mapping for a 3G cell is:

RSCP: -80 dBm
 RSRQ: -4 dB
 CSQ: 19
 ECIO: 12

SPECIFICATIONS

Model	CS2389 2G/GSM, 3G/UMTS, 4G/LTE
Dimensions	172mm (h) x 72mm (w) x 20mm (d)
Weight	149g including aerial
Temperature	-20°C to + 60°C transit, -4°C to +40°C operating
Humidity	0-80% non-condensing
Warranty	2 years
Radio Technology	GSM, UMTS, LTE, Wi-Fi 2.4Ghz (depending on version)
Battery	3.7 Volt 1500mAh
Charger	5 Vdc micro USB plug-top charger or equivalent

FREQUENCY BAND

Part Number	CS2389
4G Bands (MHz)	2100 (B1) 1900 (B2) 1800 (B3) 1700 (B4) 850 (B5) 2600 (B7) 900 (B8) 700 (B12) 700 (B13) 700 (B14) 850 (B18) 1900 (B25) 850 (B26) 850 (B19) 800 (B20) 700 (B28)
3G Bands (MHz)	2100 (B1) 1900 (B2) 1700 (B4) 850 (B5) 850 (B6) 900 (B8) 850 (B19)
2G Bands (MHz)	1900 (B2) 1800 (B3) 850 (B5) 900 (B8)
Wi-Fi	2.4Ghz

CERTIFICATIONS

International Radio Approval

The CS2389 Signal Analyser incorporates an independently tested and approved 4G/3G/2G radio module that meets the requirements of European radio communication standards
Approval Authority: 0063

