

# EMC PRE-SELECTORS

RF900 & RF910

## The essential accessory for conducted EMC measurements of noisy signals

- ▼ Self contained Band B Pre-selectors (150KHz - 30MHz).
- ▼ Choice of two units, manual and automatic, to suit the application.
- ▼ Can be used with any RF spectrum analyser for the measurement of strong or broadband conducted EMC emissions.
- ▼ Switched through path ideal for narrow band signals and comparison checks.



### AUTOMATIC AND MANUAL VERSIONS:

RF900: Manual control, push button selection.

- ▼ Passive design requires no power supply.

RF910: Automatic control via serial interface.

- ▼ Includes software utility for Windows and detailed command set to enable users to create own macros. Front panel control for manual override.

**CISPR16** These RF900/910 pre-selectors make compliance affordable!

**LAPLACE SA1000 EMC ANALYSER** When used with this analyser, operation of the RF910 is completely automatic and transparent to the user.

Strong broadband signals encountered during mains conducted compliance tests are a common cause of spectrum distortion and compression leading to false results on spectrum analysers. For this reason, CISPR16 specifies the use of pre-selectors.

The function of a pre-selector is to split the incoming signal into several frequency bands using parallel bandpass filters. Each band is switched in as the spectrum analyser scans the range 150KHz to 30MHz.

This helps avoid the distortion and compression problems caused by the direct input of a strong broadband signal to the analyser.

The performance of the analyser is thus enhanced and the overall system is similar to that of a measuring receiver, as required by CISPR16.

Typical sources that cause broadband noise are electric motors, power controllers, lighting controllers and industrial plant.



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Specification	RF900	RF910
Frequency range	150KHz - 30MHz	150KHz - 30MHz
Input/output impedance	50 ohm	50 ohm
Input/output connectors	BNC	BNC
Number of filter bands	7	8
Pass band flatness	2dB	1dB
Insertion loss	4dB	4dB
Stop band attenuation	>40dB	>40dB
Filter performance	5 + 9 pole	5 + 5 pole
Control	Manual push button switches	Auto mode: Serial interface Man mode: Rotary switch
Indication	Switch tell-tales	LED indicators
Max signal level	+23dBm	+30dBm
Power	Non required	12Vdc (Mains adaptor supplied)
Size (W x H x D)	31 x 11 x 26	31 x 11 x 26
Weight	3kg	3kg

Other EMC products from Credence Technologies, Inc. cover the complete range of emissions test equipment, including analysers and LISNs.