

EMC PRE-SELECTORS

RF910/RF915

The essential accessory for accurate conducted emission results

- Self contained, automatic Pre-selectors.
- Choice of two units, Band B only or bands A and B, to suit the application.
- Can be used with **any** RF spectrum analyser for the measurement of strong or broadband conducted EMC emissions.
- Manual and automatic control. USB interface and command set included.



CISPR16 These pre-selectors made true compliance practical and affordable.

AUTOMATIC The Laplace range of EMC analysers all include automatic detection and control of these pre-selectors for fully transparent operation.

EASE Adding a pre-selector to your conducted emissions kit eliminates out-of-band noise, making measurements easier and significantly more accurate and quicker.

Specification	RF910	RF915
Frequency range	150KHz - 30MHz	9KHz—30MHz
Number of filter bands	8	11
input/output impedance	50 ohm	
Input/output connectors	BNC	
Insertion loss	4dB	
Pass band flatness	2.5dB	
Stop band attenuation	40dB	
Filter performance	5 + 5 pole	
Control	USB	
Man mode:	Paddle switch	
Indication	LED indicators .	
Max signal level	+30dBm	
Power	110/230v 50/60Hz IEC inlet.	
Size (W x H x D)	31 x 11 x 26cm	

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.

Pre-selectors split the frequency content into relatively narrow bands and allow only one band at a time through to the analyser.

Band switching is synchronised with the analyser sweep. Thus the energy input to the analyser is substantially reduced, avoiding overload (compression) problems, without affecting the final result.

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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