

# Pre-amplifiers

## Models SA1010 & P2085

### Low noise amplifiers for EMC measurement applications

These pre-amplifiers are designed to amplify EMC interference signals received from antennas or LISNs or other 'transducers'. They provide signal gain such that low level signals can be input to receiver such that their dynamic range is fully utilised.



The SA1020 is a generally purpose, battery powered amplifier particularly suited to radiated emission measurement applications covering the range 9KHz – 1GHz.

The P2085 is a high gain amplifier, ideally suited to the recovery of LISN transient limiter insertion loss.



### Specifications @ 25°C

| Parameter                                   | SA1020                                   | P2085  |
|---|--|--|
| Gain  | 20dB 1.5dB                               | 30dB ±2dB  |
| Frequency range                             | 9KHz – 1GHz                              | 9KHz – 100MHz  |
| Max input                                   | -10dBm`                                  | -10dBm   |
| Noise                                       | <5dBuV                                   | <5dBuV   |
| Connectors                                  | BNC                                      | BNC (signal)<br>SMB (Power)                                      |
| Power                                       | Internal Battery (PP3).<br>9V @ 35mA     | 12V DC. Supplied with mains plug-top PSU.<br>100/240v ac 50/60Hz |
| Physical: Size (incl. connectors)<br>Weight | 114 x 106 x 45mm<br>212g (incl. battery) | 97 x 40 x 30<br>220 g (incl. PSU)                                |



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