



SITE VSWR POSITIONERS

PRECISE MOVEMENT - FAST MEASUREMENT



- NEW:
- STAND ALONE POSITIONING SOFTWARE
 - DLL FOR CUSTOMER SPECIFIC SOFTWARE
 - OPTICAL RS232 CONVERTER

Automatic Site VSWR Positioner SPA1

SITE VSWR MEASUREMENT

CISPR 16-1-4 defines a new technique to validate fully anechoic rooms in the frequency range 1 – 18 GHz. This method is called Site VSWR measurement. Seibersdorf Laboratories' POD Antennas are designed to exceed the requirements given in this standard.

The correct mounting of the antennas is crucial for the validation test. The positioning on site must be done in the same orientation as the patterns have been calibrated, thereby avoiding any unwanted coupling between antenna and stand. As classical antenna masts and tripods have proven inappropriate for this task Seibersdorf Laboratories developed the Site VSWR Positioners.

The SPM1 (former POD Antenna Stand), offered since 2006, allows correct positioning, easy polarization change and simple operation. When the Site VSWR testing time has to be as short as possible the new SPA1 (automatic Site VSWR Positioner) is the tool of choice. The 6 test points for each measurement location are adjusted automatically with our CalStan 10.0 Site VSWR measurement plugin. Only polarization and test volume location have to be changed manually. This reduces the manual modifications in the chamber by up to 84%.

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ADVANTAGES OF THE SITE VSWR POSITIONERS

- Antenna Stand minimizes the influence of reflections and defines the cable routing (low coupling) for repeatable results
- Easy polarization change
- Easy & time efficient accurate positioning, save as up to 84% manual setup modifications in the chamber
- Simple RS232 remote control of automatic positioner
- Measurement plugin for CalStan 10.0 available
- Easy upgrade from POD antenna stand (=SPM1) to Automatic Site VSWR positioner (re-use of tubes and holders)

MODELS

SPA1: Automatic Site VSWR Positioner including positioner, power supply, 10 m RS232 cable, USB to RS232 converter, Positioning Software, tubes and holders

SPM1: Manual Site VSWR Positioner (is equal to the POD Antenna stand) including tubes and holders, ruler

Please specify your test volume height and the bottom height of your volume with respect to the height you would like to place the antenna stand so that we can provide the correct tubes.

OPTIONS

- Upgrade from manual POD Antenna Stand to SPA1
- Flight Case designed for the POD Antenna Case, our POD Antenna stands SPA1 or SPM1 with accessories and cables
- RS232 to optical fibre converter for remote control of SPA1, 2 optical fibres (30m and 5 m) and 2 connectors
- Additional tubes for different test volume heights
- CalStan 10.0 base application and Site VSWR plugin for remote control and automatic testing



Manual Site VSWR Positioner
SPM1 with POD Antenna in
vertical polarization

Automatic Site VSWR Positioner
SPA1 with POD Antenna in
horizontal polarization

TECHNICAL DATA

	SPA1	SPM1
Dimensions (footprint):	79 x 65 cm	70 x 40 cm
Height (max):	2,5 m	2,5 m
Weight:	11 kg	11 kg
Power supply:	110-230V 50/60Hz	-
Remote control:	RS232 / USB	-
Movement precision:	± 1 mm	-
Over all positioning:	± 2 cm	± 2 cm

CONTACT

Seibersdorf Labor GmbH
RF-Engineering
2444 Seibersdorf, Austria

LEOPOLD HEISS

Phone: +43 50550 - 2049
+43 50550 - 2882 (secretary)
Fax: +43 50550 - 2881
E-mail: leopold.heiss@seibersdorf-laboratories.at
Web: www.seibersdorf-laboratories.at/rf

Presented by: