7.2 SRM: How do you set the right measurement range?

You won't find a range switch with the broadband measurement technology used in the Narda NBM. The basic units handle the full dynamic range (around 60 dB) of the attached probe. If the measurement range of the probe is not enough, simply use a different probe.

The selective measurement technology of the Narda SRM gives a measurement range of at least 140 dB. This means that measurement range switching is essential.

The most sensitive setting of the SRM equipped with the 3 GHz antenna provides a measurement range from a few µV/m up to a maximum of 1.8 V/m. This is usually more than enough for measurements inside apartment complexes, offices, and other buildings. The situation changes when antennas are visible, whether through a window or when standing in the street or on a rooftop. Any transmitting antenna in the immediate vicinity can generate enough field strength to exceed 1.8 V/m as the upper measurement range limit. Most of the measuring antennas for the SRM allow the upper measurement range limit to be increased step by step up to 200 V/m. That is sufficient even for measurements close to powerful radio broadcast transmitters. To save time looking for the ideal upper range limit, simply press the "Measurement Range: Search" key. The SRM will then choose the measurement range by itself, usually better than you can do manually.

Can't decide whether a wideband or a selective measuring device is the right one for you? Let your **contact partner** advise you.

→ Our seminar **"Exposure measurements on radio frequency transmitters using the SRM-3006"** is aimed at beginners, more advanced and professional users of selective measuring devices. You can find details of our seminars here, or ask our local **sales partner** for individual arrangements.

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