

Safety in Low-Frequency Magnetic Fields with the ELT-400

Pfullingen – Narda Safety Test Solutions, market leader in the area of measurement and analysis of electromagnetic fields presents the new ELT-400 / The innovative measurement solution for low-frequency magnetic fields

Industrial staff with responsibility for workplace safety (safety supervisors, specialist safety personnel, external safety service companies etc.) are often confronted with problems resulting from electromagnetic fields. The low-frequency range, in particular, is often associated with complex field conditions and makes special demands of the measurement procedures and evaluation of the measured values obtained. The new "ELT-400" from Narda Safety Test Solutions is equipped with a range of features, which make it easier to measure magnetic fields and also cover the wide frequency range from 1 Hz to 400 kHz.

ELT-400 is the perfect measuring device for monitoring fields according to the widely-used standards set by many national and international bodies for safety in low-frequency magnetic fields (e.g. BGV B11, INCNIRP, etc.). Low-frequency radiation in industry can often be traced back to several field sources and is accompanied by complex signal forms. A typical example of this would be a production hall equipped with various machines and plants for welding, heating and smelting. The "shaped time domain" operation integrated into the device automatically evaluates all the low-frequency field sources present. Users need absolutely no information about the signal form, frequency or corresponding threshold values. The measurements are displayed immediately in the required units "percentage of threshold value" and provide reliable results which demand no interpretation.

If necessary, the field strength can also be displayed in the units "mT" at the touch of a button. Using this method, the user has access to both the effective and the maximum values.

The field probe supplied with the product measures magnetic fields independently of the direction in which it is pointed – and with a cross-section area of 100 cm² it conforms with all commonly used standards. In addition, the probe can be detached from the device and used separately to make it even easier to search for the maximum value.

The device is available in a number of different versions for a wide range of standards and measurement ranges and can therefore be adapted to provide the perfect solution to the individual user's needs.

Notes:

Narda Safety Test Solutions, whose headquarters are at Pfullingen in Germany, is the world-wide market leader in the professional measurement of electromagnetic fields. Narda Safety Test Solutions offers resettable calibrated radiation measuring devices for workplace safety, environmental protection and research. These meet every demand, in terms of user-friendliness and long working life. When developing its products, the operating group takes into account the current legal situation, and official threshold values. Narda Safety Test Solutions offers a complete spectrum ranging from small, personal monitors and analysers for all frequency ranges to software solutions, training and measuring services.

Narda Safety Test Solutions is owned by **L-3 Communications**, New York. L-3 Communications is a leading supplier of security communications systems and products, avionics and marine systems, radio relay components and telemetry, measurement technology, space and radio technology. L-3 Communications' customers include the US Defence Department, selected intelligence agencies of the US government, foreign governments, and major suppliers of the aviation and defence industries, as well as telecommunications companies, and operators of cellular networks.

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