HAEFELY

Current and voltage – our passion

IP4B

Capacitive Coupling Clamp for EFT / Burst according to IEC/EN 61000-4-4 Edition 3

OVERVIEW

The IP4B capacitive coupling clamp is used to transfer interference signals using capacitive coupling onto control or data lines. The IP4B can be used with the HAEFELY EFT/Burst Immunity Test System AXOS 5, AXOS 8 or PEFT 8010.

The IP4B capacitive coupling clamp is built according to the standard IEC / EN 61000-4-4 Edition 3.

Please also refer to this standard for exact test setup.

FEATURES & BENEFITS

- ☑ Designed as per IEC 61000-4-4 Edition 3
- ☑ EFT/Burst testing of signal and data lines
- ☑ For cable diameter from 4 – 40 mm
- ☑ Active coupling length 1 m

APPLICATION

The IP4B capacitive coupling clamp is primarily used to inject fast transient and burst interference pulses into signal and data cables, i.e. into any type of connection to peripheral equipment. The IEC standard 61000-4-4 Edition 3 also allows the capacitive coupling method to be used for pulse injection into ac and dc power lines when no appropriate decoupling network is available The coupling capacitance (typically 100pF) between the coupling clamp and the cable inserted depends on the cable type, the diameter and other factors like screening, etc.

CALIBRATION OF IP4B

The transducer plate shall be placed in the capacitive coupling clamp such that the end with the connection is aligned with the end of the lower coupling plate. The connecting adapter shall support a low impedance connection to ground reference plane for grounding of the 50Ω coaxial measurement terminator/attenuator. The distance between the transducer plate and the 50 Ω measurement terminator/attenuator shall not exceed 0,1m.

OPTIONS AND ACCESSORIES

EFT Verification Set (includes 50 Ω and 1 kΩ attenuator)
Article no. 2499951

PAT 50A attenuator 54 dB, 50 Ω
Article no. 2495491

PAT 1000 attenuator 60 dB, 1 kΩ
Article no. 2495441

Transducer Plate for IP4B
Article no. 0781820

Accredited Calibration according to ISO 17025
Article no. 2490955