

Data Sheet no. 6.35/2

Current Transformers for PD Measurement, Types CT

When a current transformer is used instead of a measuring impedance (see Data Sheet 6.31) the current transformer can be placed around a coupling capacitor's terminal or around a part of the test object itself. A current transformer has the advantage of providing galvanic isolation between the PD detector and the high-voltage circuit.

The CTs (Fig. 1 and 2) are a low-impact PD sensor option. The installation is very easy because existing connections of the coupling capacitor or the test object like cable connections, ground leads or even medium-voltage cables can be used. Especially with the CT 100 such installation is even possible under on-line conditions, as this unit is a clamp-on current transformer that can be opened and clamped around the connection.

Type	Transfer ratio at 50 Ω	Primary window	Bandwidth at - 3 dB	Bandwidth at - 6 dB
CT1	1:10	15 mm	0.5 - 80 MHz	0.3 - 100 MHz
CT100	1:10	100 mm	2 - 25 MHz	1.2 - 40 MHz



Fig.1: CT1, fixed current transformer



Fig.2: CT100, clamp-on current transformer

For further information please contact:

or our local representative:

HIGHVOLT Prüftechnik Dresden GmbH
Marie-Curie-Strasse 10**D-01139 Dresden / Germany**Tel. +49 351 8425-648
Fax +49 351 8425-679
e-mail dresden@highvolt.de
website <http://www.highvolt.de>