Various CT models

CT1 fixed current transformer

CT100 clamp-on current transformer

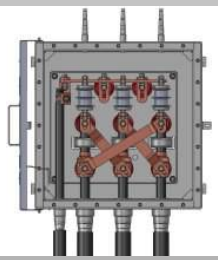
CT100 & RPA1

Current Transformers

When a current transformer is used instead of a quadrupole, the current transformer can be placed around a coupling capacitor terminal or around a part of the test object itself. A current transformer has the advantage of providing galvanic isolation between the ICM*series* PD detector and the high voltage circuit. Power Diagnostix offers current transformers as separate modules or integrated with a coupling capacitor into a single unit.

CT33 for on-site installations in cable cross link boxes

The CTs are a low-impact PD sensor option since no interruption of the power connection is required. Such installation is even possible under on-line conditions, as the CT100 is a clamp-on current transformer that can be opened and clamped around a connecting cable, a ground lead, or even a feeding medium-voltage cable with a high-voltage motor installation.



Three CT33s in a cross link box

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
CT33	1:10	33 mm	0.7 – 75 MHz	0.4 – 77 MHz
CT60R	1:10	60 mm	2 – 25 MHz	1.2 – 40 MHz
CT100(R)	1:10	100 mm	2 – 25 MHz	1.2 – 40 MHz
CT125R	1:10	125 mm	2 – 25 MHz	1.2 – 40 MHz
CT150R	1:10	150 mm	2 – 25 MHz	1.2 – 40 MHz

The versatility of the Power Diagnostix line of PD detection equipment is due in large part to the range of accessories available for the ICM*series* instruments. Each ICM*series* data acquisition unit can be combined with different accessories to suit specific applications.