

Data Sheet 6.52/2

PD Calibrators, Type CAL 542

The requirements for calibrators as well as the calibration procedures are given in IEC 60270:2000. Calibrators of type CAL 542 (see Fig. 1) are used for the calibration of a partial discharge (PD) measuring system in the complete test circuit. The repetitive calibration charges Q_0 are generated by a step voltage pulse U_0 injected into a capacitor C_0 .

The appropriate choice of a calibrator depends on the range of typical charge values of the partial discharges being measured. There are four calibrators with different ranges of charge pulses available (see Table 1).

Table 1 Range of charge pulses for CAL 542

Calibrator	Range of charge pulses
CAL 542 A	0.1 ... 10 pC
CAL 542 B	1 ... 100 pC
CAL 542 C	10 ... 1000 pC
CAL 542 D	100 ... 10000 pC



Fig. 1 Calibrator Type CAL 542