

# 12kV Coupler with base



Techimp 12kV Coupler is a capacitive coupler that can be applied for partial discharge measurements. It can be chosen as PD detection sensor for Techimp PDCheck, PDScope or PDBase II systems. It is suitable for on/off line PD tests on rotating machines, for both spot measurements and monitoring applications, in fact it can be permanently installed. A BNC termination is available to connect the coupler through a coaxial cable.

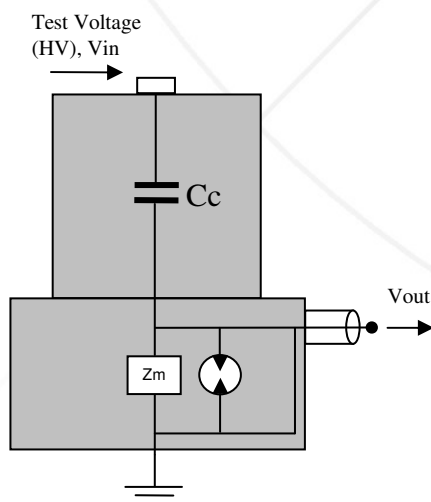
The HV tap has to be connected to the generator output bus-bars as close as possible to the machine. A measurement impedance ( $Z_m$ ) is embedded in the base and allows both PD signals and reference voltage derivation. The latter is necessary to synchronize the PDBase II or the PDCheck system.

The base includes also a surge arrester which set the maximum transient output voltage.

## Specifications

Capacitance	560pF ÷ 1500pF
Frequency range	1÷60 Hz
Rated Voltage (rms phase-to-phase)	12kV
Tan $\delta$	$1 \times 10^{-3}$
PD level @7.6kV / 50Hz	<2pC
High Voltage connection	M8 threaded
Temperature range	0°C ÷ +90°C
Weight	1.9 kg
Overall dimensions*	H 172 mm, base $\varnothing$ 145mm
Output tap	Female BNC

## Installation scheme



*\*See next page for outline dimensions*

<b>TECHIMP</b>		COMM. OA	Q.TA:
DOCUMENTO RISERVATO A TERMI... DI REINDELD COMANARE NOTO A TERZI SENZA ESPLICITA AUTORIZZAZIONE 480169 VITA & PISCICOLA SEDI S.p.A. TORINO - I.T.C. P. 011/19986050 P. 011/19986099		Note:	
TOLLERANZE GENERALI DILATAZIONE	RACCORDI NON QUOTATI: Foglio: 1 di 1	SMUSSI NON QUOTATI: DILATAZIONE	
$\pm 0.5$	DESCRIZIONE	RA	CM
$\pm 0.1$	F.T.	NT	SHORE
$\pm 0.1$	FINITURA	DISEGNATORE: Barbieri A.	
IT11	Name file: Coupler MINI	TS000155	