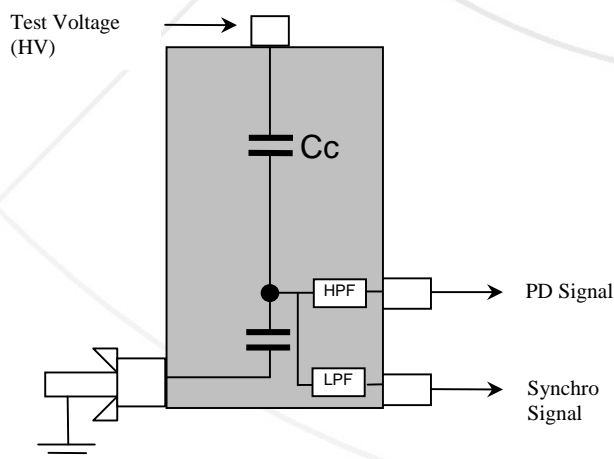
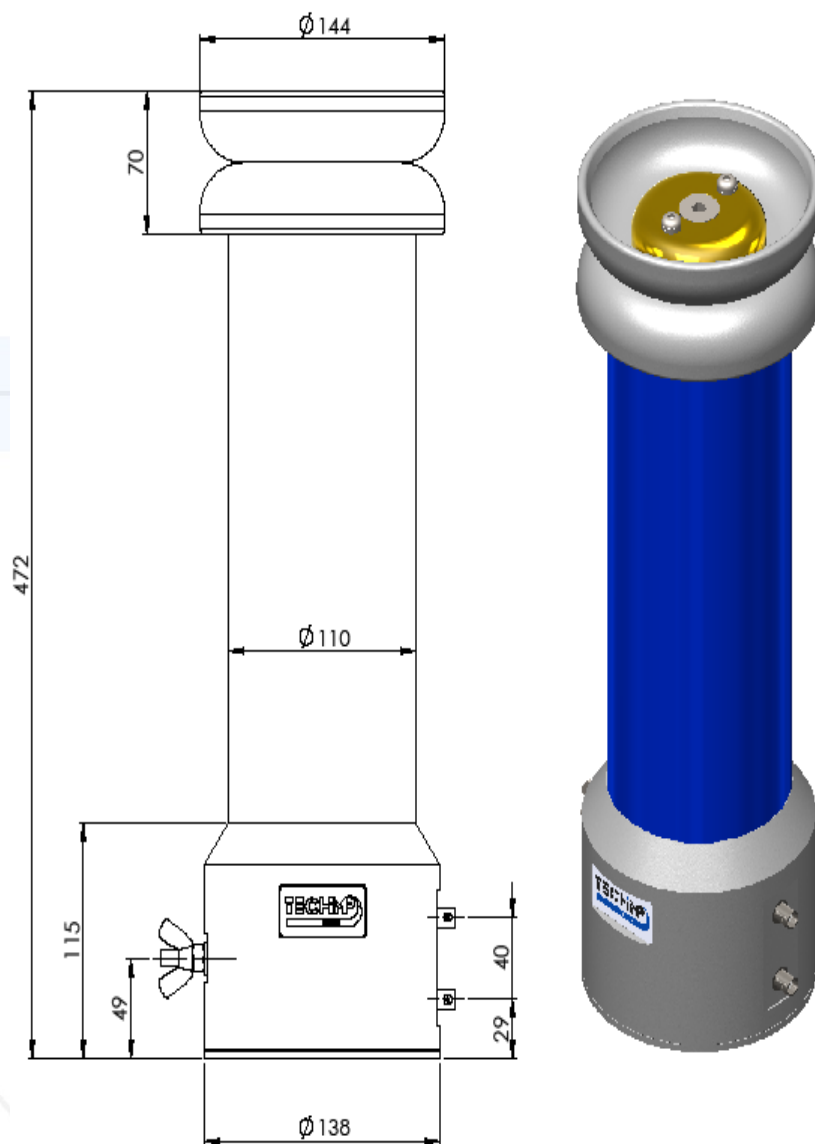


# Capacitive Divider



TechImp Capacitive Divider is a quadrupole suitable to Partial Discharge measurements. It can be chosen as detection sensor for TechImp PDSystems. By means of an internal coupling capacitor ( $C_c$ ), it provides both synchronization signal for TechImp Acquisition Units both PD signal. The first one is filtered through a High Pass Filter, which allows test voltage rejection; the second one is filtered through a Low Pass Filter. The coupling capacitor is guaranteed PD free ( $<2\text{pC}$ ) up to rated voltage at industrial frequency (50-60Hz).





Rated Voltage	50kVrms
Operating frequency range	50 Hz – 2 kHz
Nominal Capacitance (C <sub>0</sub> )	1 nF±5%
Operating temperature	-10 / +40°C (-10 / +50°C @50/60Hz)
Phase shift (Synchro out vs HV applied)	<1° @50-60 Hz
Synchro out for 1kV applied	1.0 V [±5%]
50 Hz Attenuation	>140 dB (50-60 Hz)
Weight	7.2kg