

## Derivation Box

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TechImp derivation box allows to connect (permanently or temporarily) a PD measurement instruments to sensors permanently installed in an electrical system.

It allows the operator connects the PDSytem and carry out the PD measurement without any outage of the equipment to be tested. It houses the sensor termination and includes surge arrestors to guarantee the safety of operators (they limit the maximum input/output transient voltage).

The standard version is an aluminum box provided with 3 PD input channels (to be connected with the sensors) and 3 PD output channels (to be connected with the PD measurements instrument input channels). 6 PD channel version is also available.

The derivation box includes also an output channel for the needed reference voltage signal (synchronization signal).

The Derivation Box installation requires the outage of the electrical apparatus and must be connected to the ground (earthing connection must be realized by means of proper cable: a flat, not insulated, 25 mm<sup>2</sup> section cable is recommended). It is also recommended to fix the derivation box to a proper support by means of the screws located on the back side of the box. Wall-mounting is also feasible.

# Derivation Box

## Specifications

Maximum output transient voltage	90Vpeak
Maximum input transient voltage	500Vpeak
Maximum synchronization output voltage	250Vrms
Maximum input/output voltage	50Vrms
Frequency range synchronization output voltage	50÷60 Hz
Frequency range output voltage	100kHz÷40MHz
Ambient operating temperature	-25°C ÷ +65°C
Overall dimensions	Ref. Technical drawing
Degree of protection	IP66
Wall mounting	feasible
Input/output connector	Female TNC

## Concept Scheme



