Full instructions and video tuto. http://doc.smart-impulse.com

Help Desk +44 (0) 330 684 6080

technique@smart-impulse.com

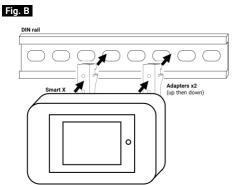
SETUP

The **Smart X** is a new generation meter compatible with all electrical configurations (cat. IV 300 V) that enables to identify the consumption of each type of equipment in a building by measuring a single point of the network.

Magnetic, you can fix it on any metal surface (fig.A) or install it on a DIN rail thanks to the adapters provided (fig.B).

If the phases to be measured are accessible from outside the electrical panel (fig.C) and a power outlet is available, you can install it without even opening the panel!

Fig. A

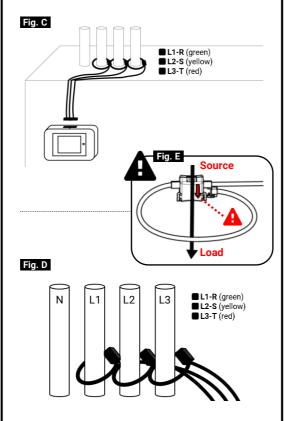


MEASUREMENT

For each phase of the installation to be measured (eg: main incomer, specific circuit), encircle all the insulated conductors thanks to the openable coils (fig. C-D), by imperatively respecting the direction of the sensors (arrow inside the loop, pointing from the source to the measured load) and the order of the phases (fig.E).

If the electrical panel supplies a capacitor bank or has downstream power generation units, it is absolutely necessary to measure each of these points independently thanks to a multi-sensor kit (sold separately).

* Otherwise, it is possible to measure only a part of these conductors (same number of conductors measured for each phase). Warn imperatively Smart Impulse.



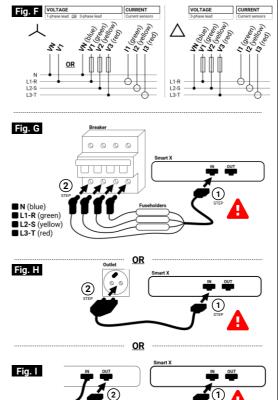
POWER

A Connect first the lead (single- or three-phase) to the 'IN' port of the Smart X, then to the network. 'OUT' port is strictly dedicated to share power supply between Smart X (fig.I)

Depending on your installation:

- > For optimum accuracy, connect the three-phase lead to the Smart X then insert the magnetic connectors on the screws downstream the closest low voltage modular circuit breaker, while respecting the positioning of the neutral* and the order of the phases (fig. G, max voltage 435 V_{PMS}).
- > For a measurement without opening the electrical panel, simply connect the single-phase lead to the Smart X then plug it into a power socket (fig.H).
- > If a Smart X is already installed, you can connect the new one to it via the 'bridge' lead (fig.1).

The screen of the Smart X lights up.



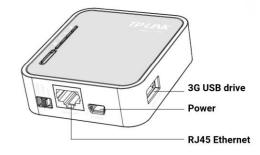
COMMUNICATION

Plug in the Smart Router close to the Smart X installed (fig.J, a multi-socket adaptor may be necessary), then connect it to the local network* or to the 3G network thanks to the 3G USB-drive provided. After 2 minutes, the Smart X in the same electrical room pair automatically to the Smart Router (Wi-Fi).

*LAN: Before the installation, please provide an Ethernet cable and check with your IT department for outgoing connection authorisation to our server:

- ICMP protocol to 8.8.8.8 (ping), DNS
- TCP protocol to 83.222.241.132, port 80 (HTTP)
- UDP protocol to time.google.com, port 123 (NTP)
- * 3G: If 3G coverage is insufficient (< -100 dBm), it is possible to move the 3G USB-drive. Contact Smart Impulse.





VALIDATION

Once the meter is set up, call the Help Desk on +44 (0) 330 684 6080 in order to validate the installation, then please send within 24h the validation form to technique@smart-impulse.com, imperatively accompanied by the photos below. The installation will be validated only after reception of these documents. Thank you!



- Smart X meter
- Current sensors
- Power supply connection
- Smart Router
- Wide plan of room after installation