

| Características técnicas ⁽¹⁾ | Technical features ⁽¹⁾ | |
|---|------------------------------------|--------------------------|
| Alimentación | Power Supply | |
| Tensión nominal | Rated voltage | 85 ... 265 V ~ |
| Frecuencia | Frequency | 50 ... 60 Hz |
| Consumo | Power | 1.5 ... 4.5 VA |
| Circuito de medida de tensión | Voltage measurement circuit | |
| Margen de medida de tensión | Voltage measurement margin | 85 ... 265 V ~ |
| Rango de medida de frecuencia | Frequency measurement margin | 50 ... 60 Hz |
| Tensión mínima de medida (V start) | Min. voltage measurement (V start) | 95 V |
| Categoría de la instalación | Installation category | CAT III |
| Circuito de medida de corriente | Current measurement circuit | |
| Corriente nominal pinza LTP10 | Nominal current LPT10 clamp | 60 A |
| Corriente nominal pinza LTP16 | Nominal current LPT16 clamp | 100 A |
| Corriente nominal pinza LTP24 | Nominal current LPT24 clamp | 300 A |
| Corriente mínima de medida (I start) | Min. current measurement (I start) | 150 mA |
| Categoría de la instalación | Installation category | CAT III |
| Precisión de las medidas | Measurement accuracy | |
| Medida de tensión | Voltage measurement | 1% ⁽²⁾ |
| Medida de corriente | Current measurement | 1% ⁽²⁾ |
| Medida de potencia | Power measurement | 2% ⁽²⁾ (PF=1) |

⁽²⁾ + variaciones en el rango de uso / + variations in range of use

| Variaciones en el rango de uso | | Variations in range of use | |
|--------------------------------|------------------------|----------------------------|------------------|
| Magnitud de influencia | Magnitude of influence | Rango / Range | Máxima / Maximum |
| Temperatura | Temperature | -10°C ... +45°C | 0.3% |
| Humedad relativa | Relative humidity | 10% ... 90% | 0.3% |

| Comunicaciones | | Communications | |
|----------------|---------------|---|--------|
| | | WiFi | NB-IoT |
| Tipo | Type | Wi-Fi (IEEE 802.11) | NB-IoT |
| Canales WiFi | WiFi Channels | 1 a 11 (no funciona en los canales 12 o 13) / 1 to 11 (unable to work on channels 12 or 13) | - |

| | | | |
|-------------------------|-----------------|--|--|
| Protocolo | Protocol | HTTP, Modbus/TCP, XML | IPv4 / IPv6 / UDP / TCP |
| Rango de frecuencia | Frequency range | 2.405 - 2.480 GHz | B1, B3, B5, B8, B20, B28 |
| Cifrado | Encryption | AES128 | - |
| Certificación | Certification | FCC (USA), IC (Canada), ETSI (Europe) | GCF / CE / ATEX / JATE / KC / RCM / IMDA / NCC |
| Reset | Reset | Presionar durante 6s para borrar configuración WiFi / Press for 6s to clear WiFi configuration | - |
| Potencia de transmisión | RF Output power | 11b: 67.5mW and 11g: 71.1mW, 11n (HT20): 56.5mW indicate EIRP | 23dBm ± 2dBm |

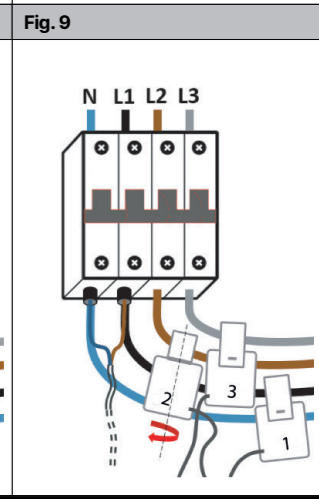
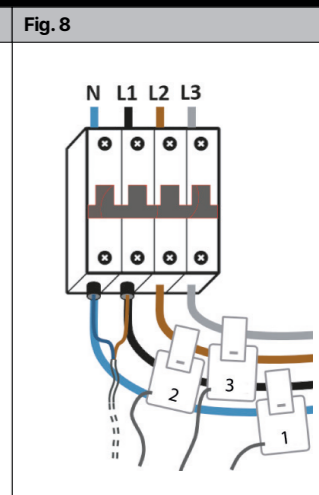
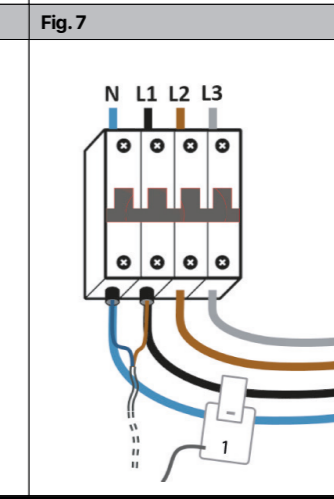
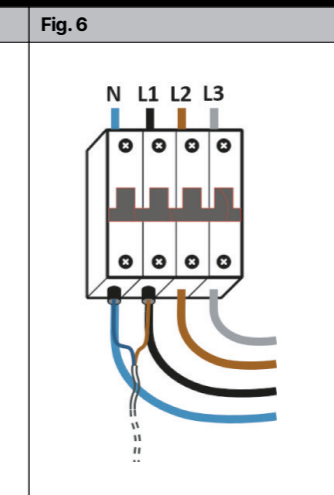
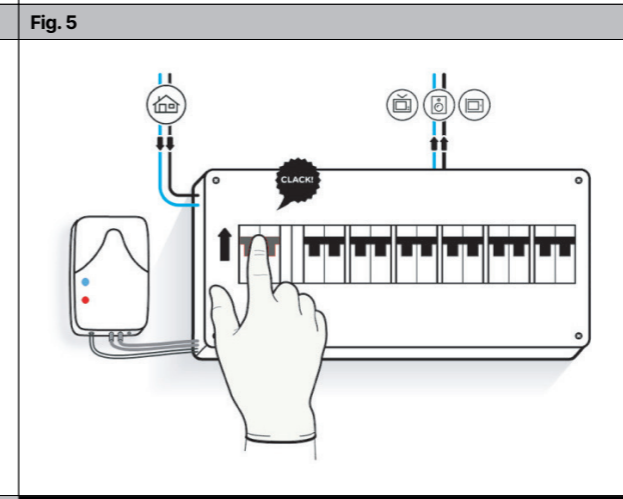
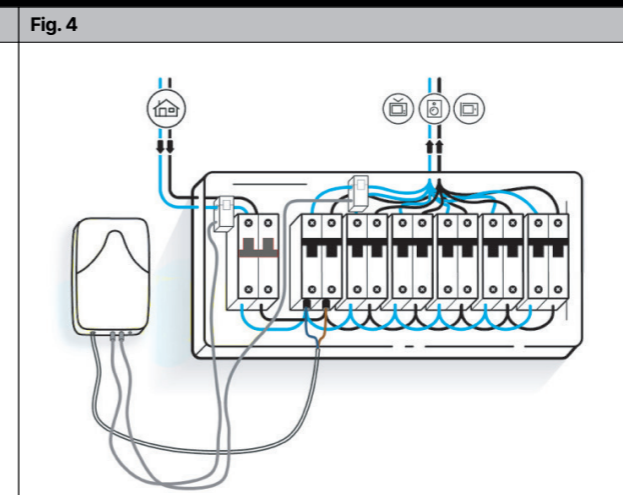
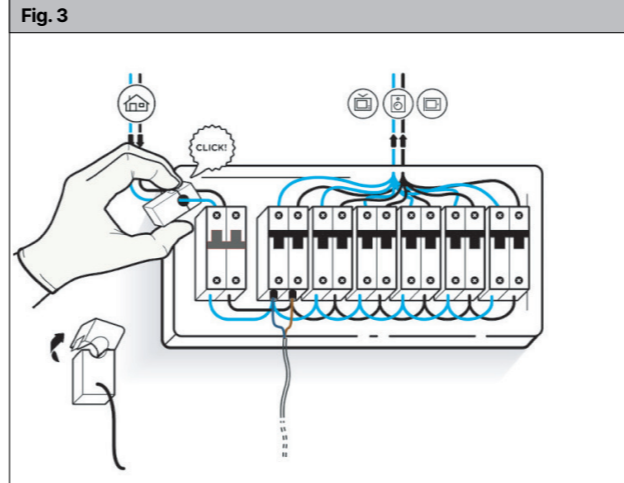
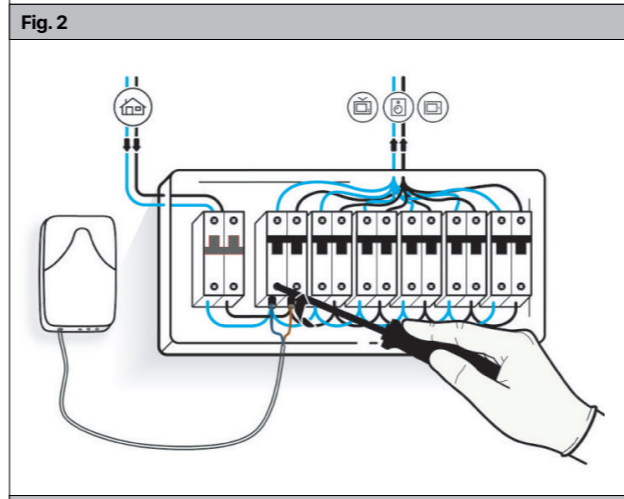
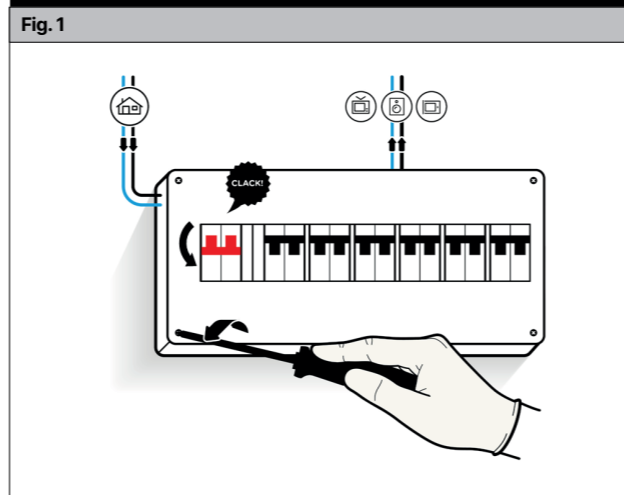
| Código de LEDs | LEDs code | |
|------------------------|----------------------|--|
| LED rojo | Red LED | |
| Parpadeo lento (1s) | Slow blinking (1s) | |
| LED azul | Blue LED | |
| Parpadeo lento (1s) | Slow blinking (1s) | |
| Parpadeo rápido (< 1s) | Fast blinking (< 1s) | |

| | | |
|------------------------|----------------------|---|
| Parpadeo lento (1s) | Slow blinking (1s) | El único estado correcto del LED rojo es el parpadeo / Blinking is the only correct state of the red LED |
| Parpadeo rápido (< 1s) | Fast blinking (< 1s) | Conectado a una red WiFi (contraseña correcta) pero sin acceso a Internet (sin comunicación con el servidor) / Linked to a WiFi network (correct password) but no Internet access (no server communication) |
| Encendido fijo | Fixed on | Envío de datos a través de la red. Comunicación OK / Sending data through the network. Communication OK |

| Características ambientales | | Environmental features | |
|-------------------------------|-----------------------|---|--|
| Temperatura de trabajo | Operating temperature | -10°C ... +45°C | |
| Temperatura de almacenamiento | Storage temperature | -40°C ... +85°C | |
| Humedad relativa | Relative humidity | 10% ... 90% (sin condensación / non-condensing) | |
| Altitud máxima | Maximum altitude | 2000 m | |
| Grado de protección | Protection degree | IP20 | |
| Aislamiento | Insulation | Doble aislamiento / Double insulation | |

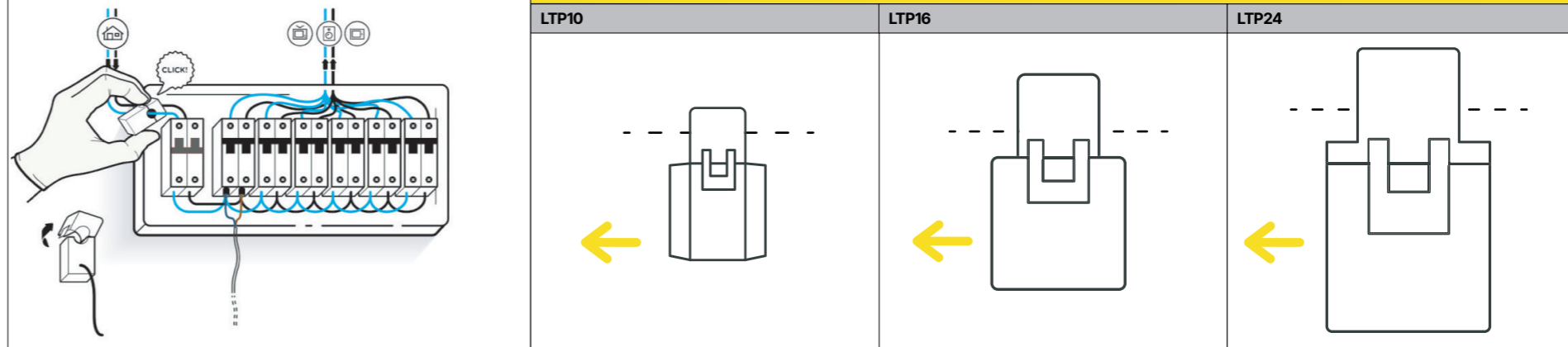
| Características mecánicas | | Mechanical features | | | |
|---------------------------|------------------|--|-------|-------|-------|
| | | Box | LPT10 | LPT16 | LPT24 |
| Dimensión de ventana | Window dimension | - | 10 mm | 16 mm | 24 mm |
| Peso | Weight | 125 g | 61 g | 91 g | 200 g |
| Envolvente | Case | Plástico V0 autoextinguible / Self-extinguishing V0 plastic (UNE 21031 90°C) | | | |
| Normas | Standards | UNE-EN 61010-2-030:2011, UNE-EN 61326-1:2006, EN 301489-17 V2.2.1 | | | |

Instalación / Installation

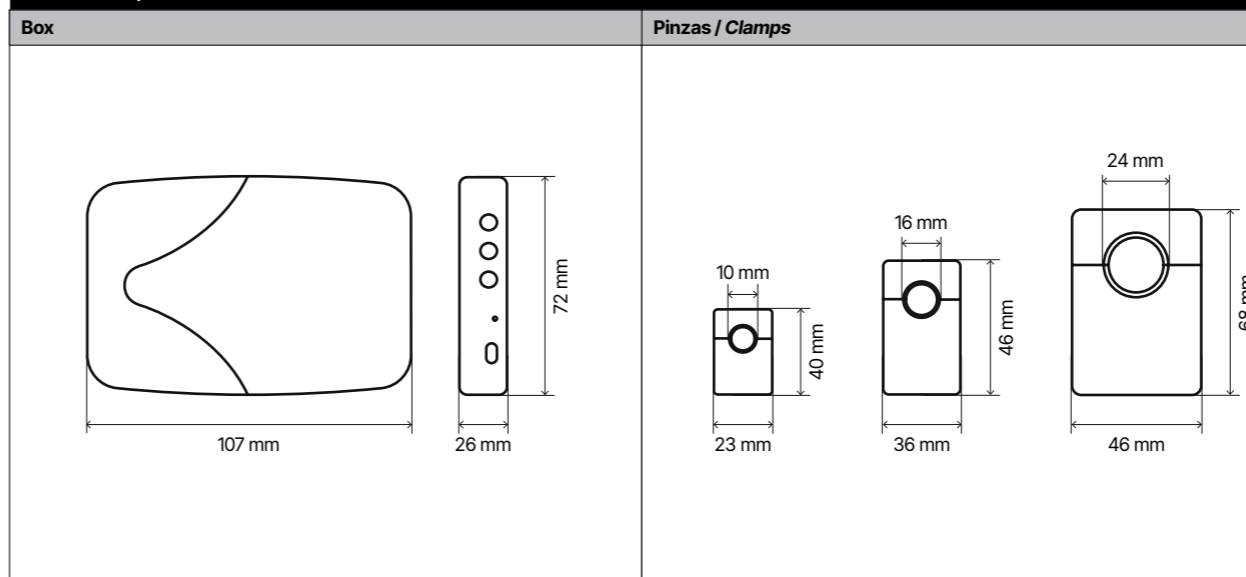


**** Información solo para instalación fotovoltaica / Info only for photovoltaic installation ****

Sentido positivo de la corriente / Positive sense of the current



Dimensiones / Dimensions



(1) Las especificaciones metroológicas dadas son siempre con ajuste de campo / Metrological specifications given are provided with adjustable field.