

# INSTALLATION CERTIFICATE

- Thank you for installing the Smart X! This certificate is used to validate the compliance and correct operation of the installation. All fields are mandatory. If all the validation boxes (see reverse side) are checked, the installation is complete: please send this certificate (photo or scan, front and back) within
- 24 hours to support@smart-impulse.com imperatively with the requested photographs which will help for maintenance issues. Access to the data will only be possible after receiving these documents. Thank you!

# INSTALLATION INFORMATION

#### Installation manager

Name SURNAME	Ξ
Telephone	

e-mail

Organisation	
Site name	
Installation date	

### **INSTALLED HARDWARE**





i Smart X: please fill only 'Smart X or Multi-sensor kit channel A'.

- Smart X + Multi-sensor kit (if installed): fill all measurement points.
- **i** Nb of measured conductors per phase / Total nb of conductors per phase: ex 2/4 (2 mains\* per phase encircled by current sensors on the 4 mains per phase for the main switchboard). \*or busbars.

MAC 5 http://	C:CF:7FD3:E1:56 smartx.si/d3e156 Cat.IV 300 V	Smart X ∝ Multi-sensor k	Multi-senso	or kit ch	annel B	Multi-sensor kit channel C				
MAC address (last 6 digits, Ex: D3:E1:56)	Voltage connection (3- phase lead, 1-phase lead or bridge lead)	Name of the circuit (Ex: Main switchboard – TR1)	Nb of measured conductors per phase (Ex: 2)	Total Nb of conductors per phase (Ex: 4)	Name of the circuit (Ex: Capacitor bank)	Nb of measured conductors per phase (Ex: 1)	Total Nb of conductors per phase (Ex: 2)	Name of the circuit (Ex: Photovoltaic)	Nb of measured conductors per phase (Ex: 1)	Total Nb of conductors per phase (Ex: 2)

Comments and reservations regarding the installation

### **ﷺ** INSTALLATION VALIDATION

I certify that the installation complies with the recommendations of the user guide and that I have validated, for each installed measurement point (each Smart X and each channel of the multisensor kit), the compliance points below.

If any points remain non-compliant despite the application of the corrective actions proposed, or for any installation with a single-phase power supply or  $\Delta$  delta network without distributed neutral, contact Smart Impulse directly on +44 (0) 20 3695 6840 for remote support and validation.

#### **1. CONFORMITY OF THE INSTALLATION**



**<u>2. MEASUREMENT</u>** i To validate the measurement, please go to the 2<sup>nd</sup> page of the Smart X using the arrows on the touch screen and check, for each phase of each installed measuring point, the values below:

▲ <u>The measurement can only be validated via the Smart X screen if it is powered via a three-phase lead in 'star' configuration</u>. In other cases, the data displayed will be incorrect. For a multisensor kit, this check must be carried out on each channel independently (channel A connected alone, then B alone, then C alone) then on the whole (channels A, B, C connected together).

**I > 5A and balanced on the 3 phases** (phase difference <± 30%) <sup>(2)</sup> Otherwise, check the connections and make sure that the measured load is operating (Force the capacitor banks to consume if necessary).

 $P > 0 \ kW$  and  $-50^\circ \le PHI \le +30^\circ$ , except for capacitor banks (P~0 kW and  $-120^\circ \le \phi \le -60^\circ$ ) and electrical production units (-5°  $\le \phi \le +5^\circ$ )

Otherwise, first check the direction and order of the sensors.
2 invalid phases: swap the 2 corresponding current sensors.

- 3 invalid phases: shift all sensors by one phase.

**P balanced on the 3 phases** (phase difference <± 30%) <sup>(2)</sup> Otherwise, check the connection of the magnetic connectors. If a meter exists on the same perimeter, check the consistency of the displayed values.

3. COMMUNICATION i Please go to the 3<sup>rd</sup> page of the Smart X and check the 'COM' status below.

#### **'INTERNET OK'**

If 'ROUTER NOK' (router not detected) or 'WIFI LOW' is displayed on the screen of the Smart X, move the router closer to the Smart X.
If 'WIFI OK' is displayed (Smart X connected to the router but not to the Internet), check that the router is connected to the 3G/4G (if not, move the router to an area with better 3G/4G coverage) or to the local network (otherwise contact your IT department), depending on the selected option.

The following **photographs** have been carried out for each measurement point and will be sent to Smart Impulse: Smart X meter, Multi-sensor kit (if installed), Current sensors (arrow visible), Connection of the power supply, Smart Router, Wide plan of the switch room after installation.

Overall, the installation has been:

4. PHOTOGRAPHS

Very complex



