

GE-FarmGuard Installation sheet

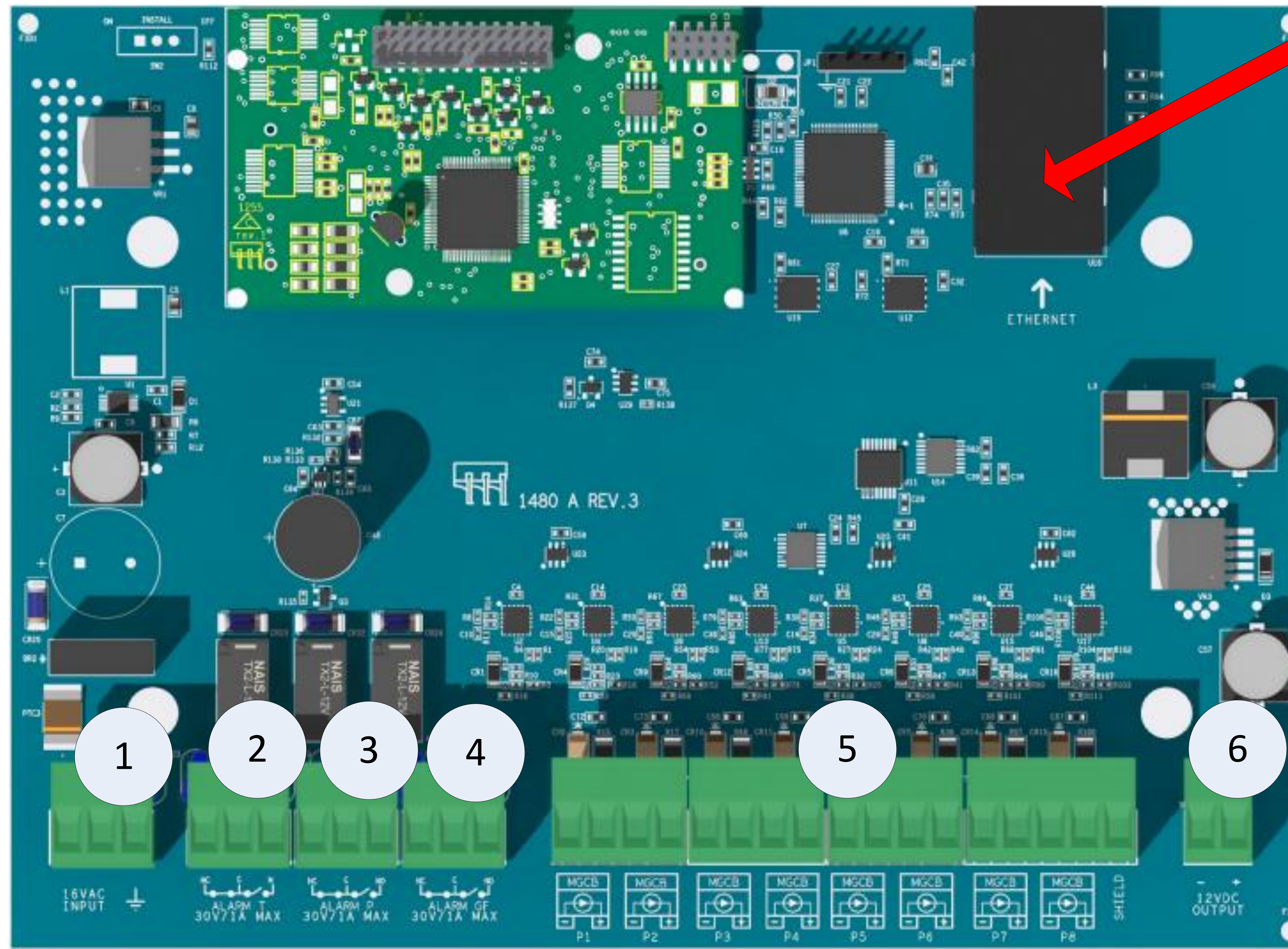


1 16 VAC INPUT connector
SPS-16V transformer

2 ALARM T connector
Temperature alarm relay

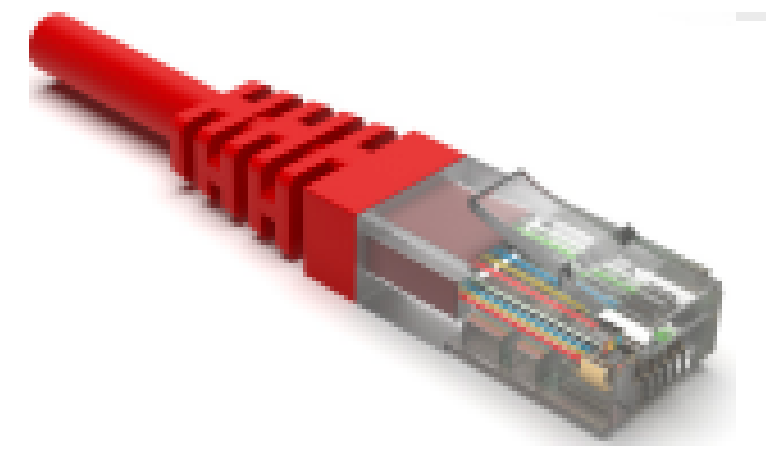
3 ALARM P connector
Communication alarm relay

4 ALARM GF connector
"Ground Fault" alarm relay



Ethernet Connection

Connection to link the Farmguard to the internet and to the FarmQuest platform



MGCB P1-P8

5

To connect a GE-EPS-1 or GE-EPS-4
Maximum of one module per PORT

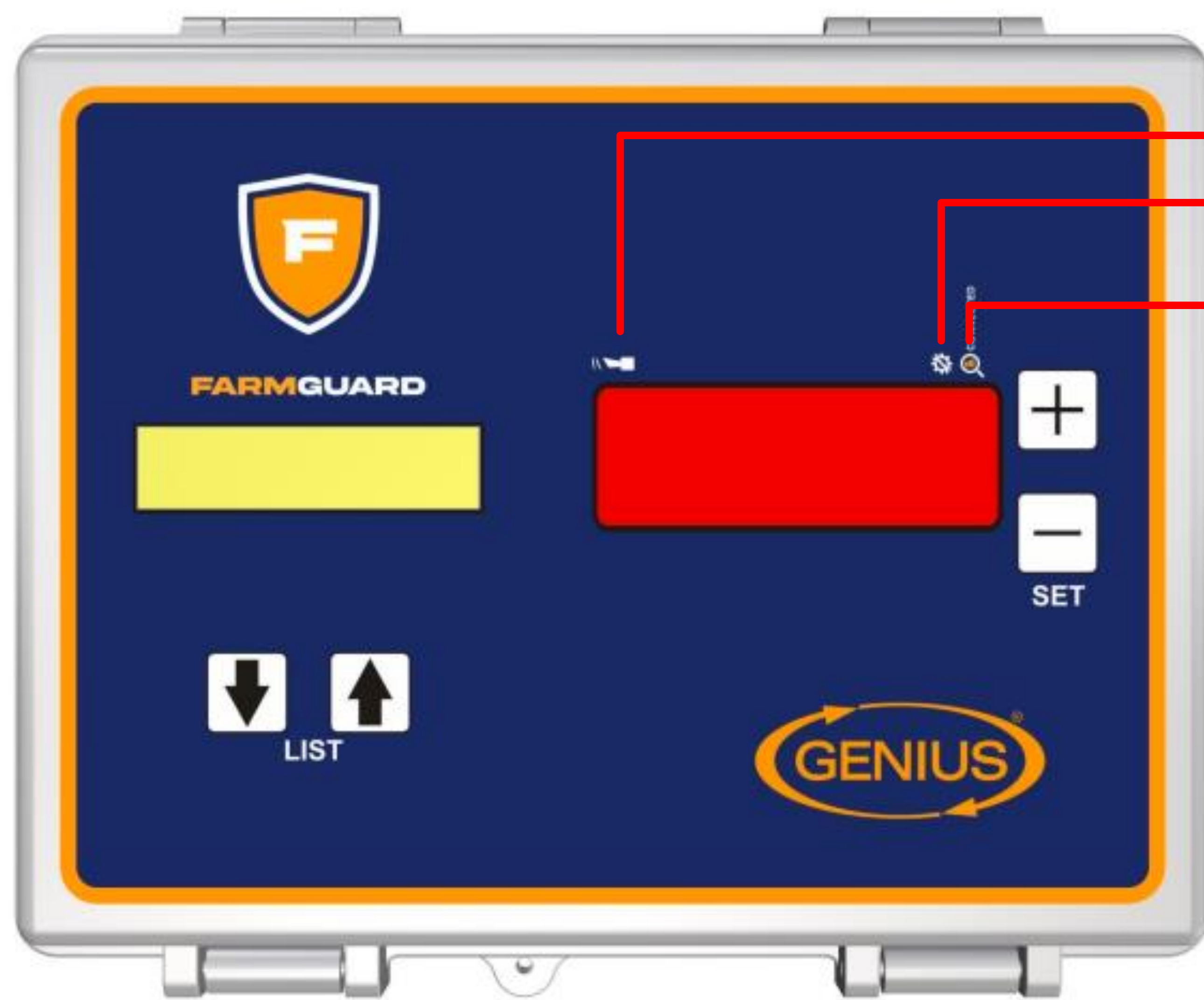
MGCB communication cables
Shielded wires AWG #22
Maximum capacitance between conductors @ 1Khz = 24pF/foot
TWISTED (8 twists per foot),
MAXIMUM LENGTH of 250 m (820 feet)
(Ex.: BELDEN 8761)

Low tension wires (communication)
Install at least 30 cm (12 inches) away from high tension wires (120/230 VAC, 24 VDC)
Always cross high tension and low tension wires at 90-degree angles.
Do not connect more than one wire per green terminal block. If you must use more than one wire, use a second coupling.

12 VDC OUTPUT

6

For future use



Alarm status
Indicates if the system is in INSTALLATION mode
Indicates if the system is connected to the FarmQuest platform

IMPORTANT: this installation MUST be completed by a certified electrician in order to receive a certificate of conformity for your insurance company

EPS-1 Installation Sheet

IMPORTANT: this installation **MUST** be completed by a certified electrician in order to receive a certificate of conformity for your insurance company

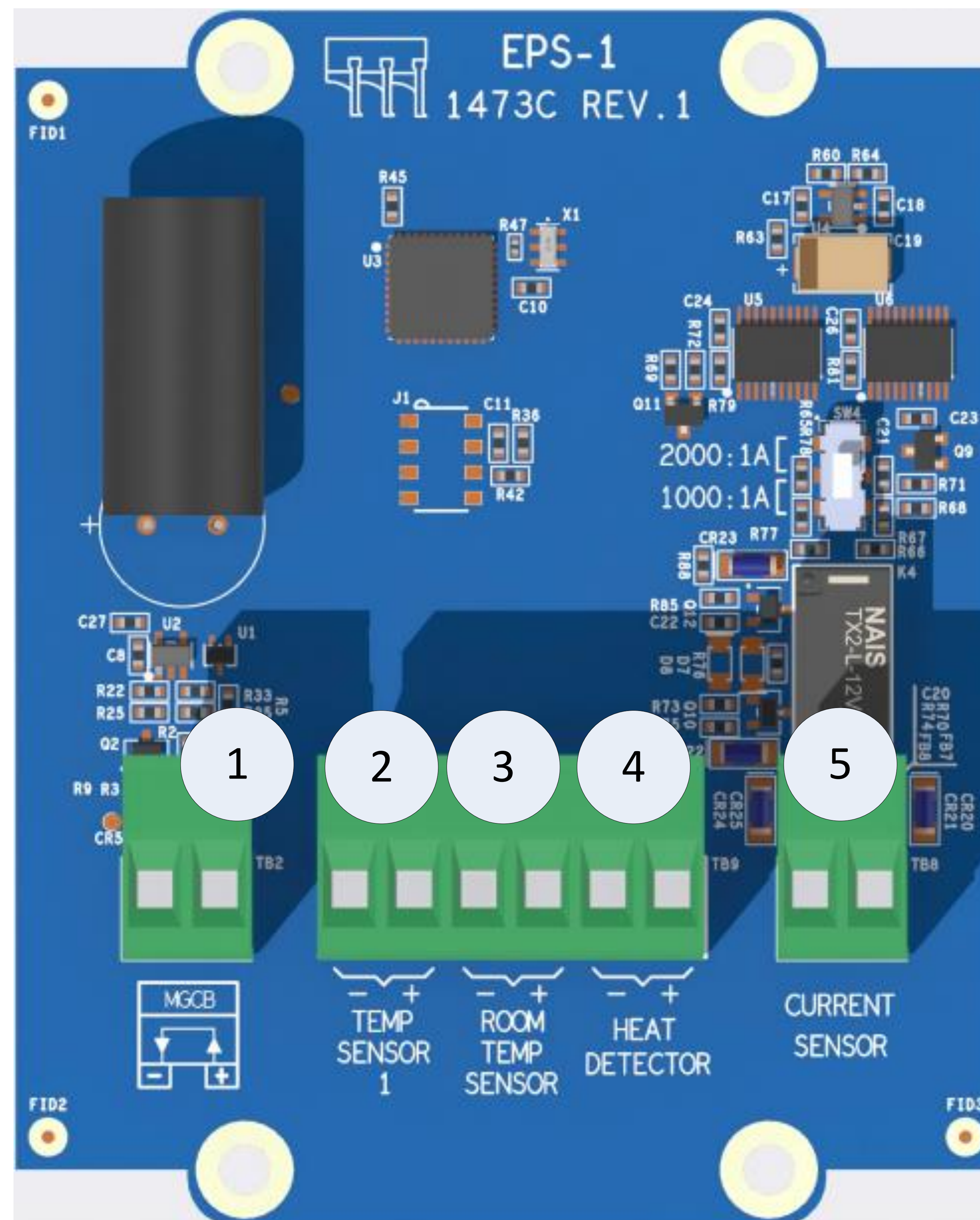
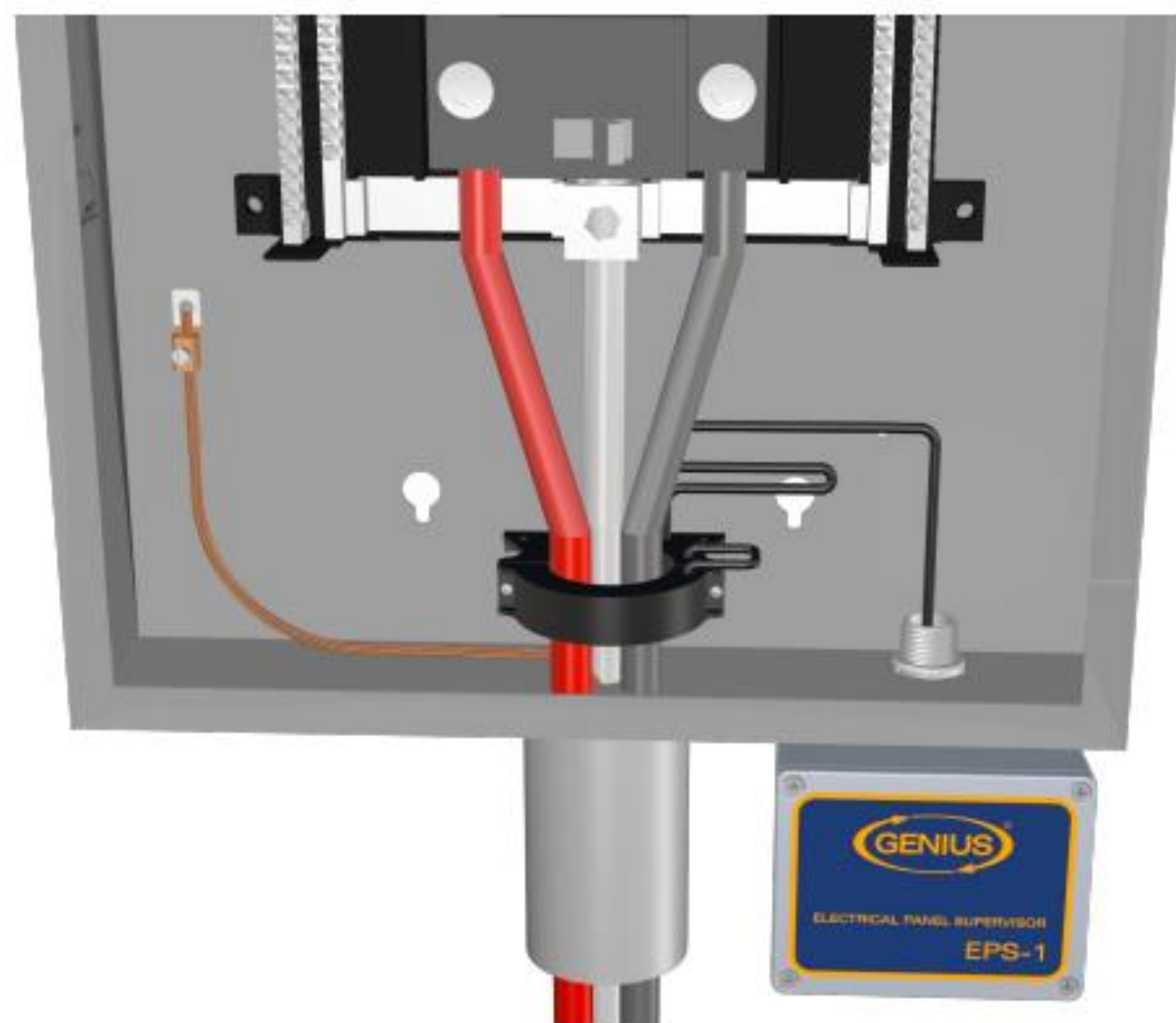
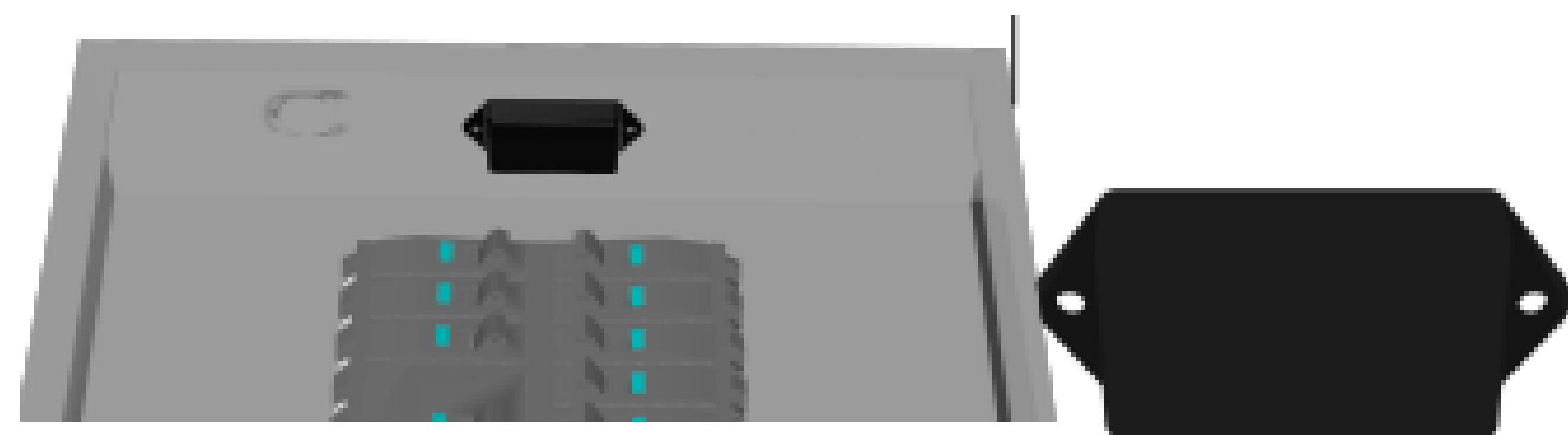
1 MGCB connector

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 Always cross high tension and low tension wires at 90-degree angles.
 Do not connect more than one wire per green terminal block. If you must use more than one wire, use a second coupling.

TEMP SENSOR 1 connector

2 This connector is attached to a magnetized 2004-10K/MB probe installed within the electrical panel or at the switch at the top.



3 ROOM TEMP SENSOR connector

This connector is attached to a 2004-10K temperature probe. This probe is installed inside the electrical chamber to measure the room temperature.

CT FIX (in presence of a Subtractive)

Usage of a CT FIX, in contrast to a CT/SPLIT, **requires that the power be turned off.**

THE CT FIX is used only when a current subtractive for a nearby building is required.



Compatibility with Current Transmitters (CT)

The EPS-1 module is compatible with current transmitters (CT) 2000:1 and 1000:1 (by default: 2000:1) This is selectable through a slide switch



CURRENT SENSOR connector

This connector allows for the reading of current values. The CT is installed around wires (Line, Neutral). The ground must never be passed through a CT. Cable used as an extension for CT: AWG #18 MAXIMUM LENGTH 75 m (250 feet)

HEAT DETECTOR connector

This connector allows for the connection of a heat detector apparatus. It is also possible to connect a dry contact for panel supervision.

EPS-4 Installation sheet

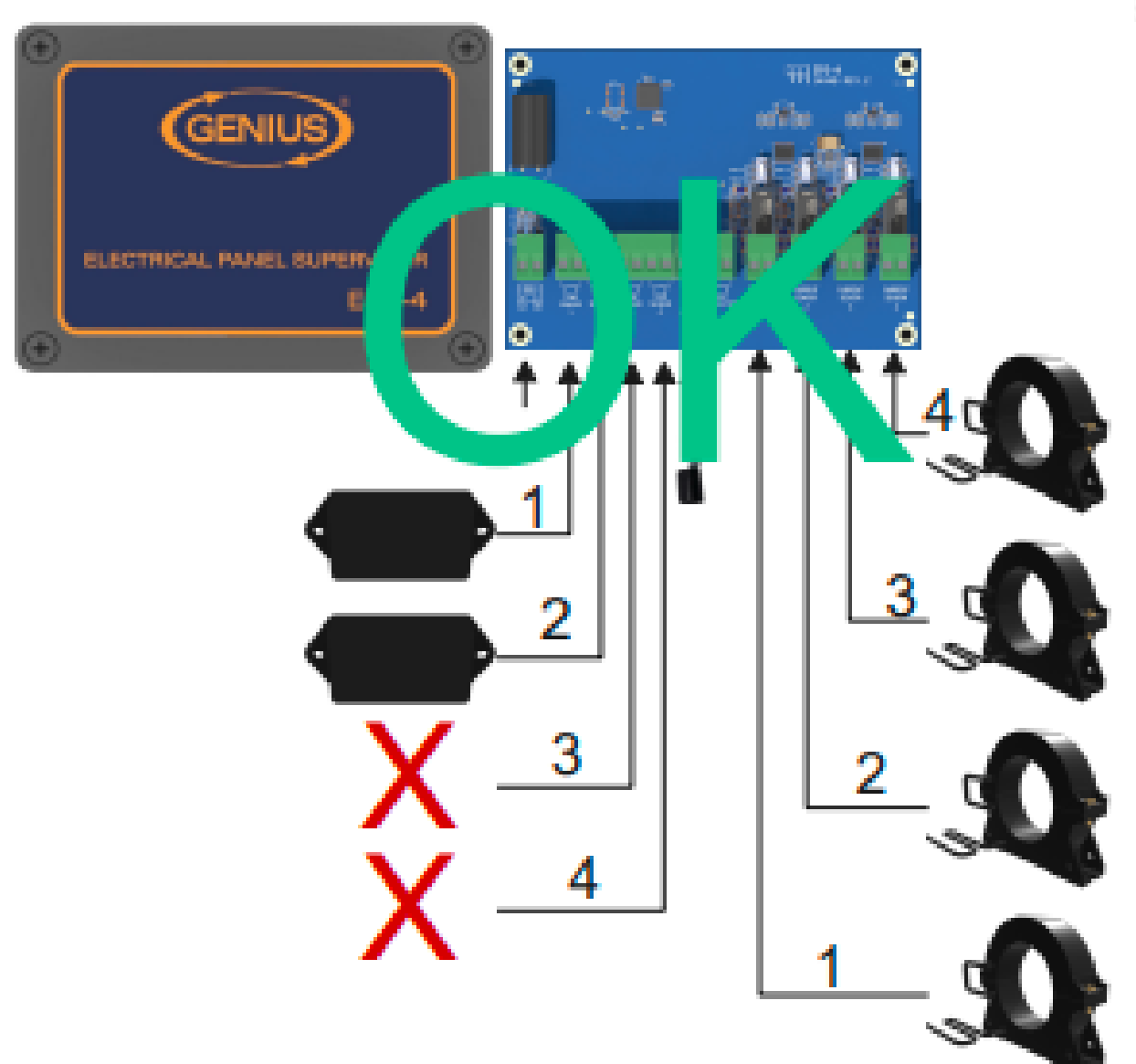
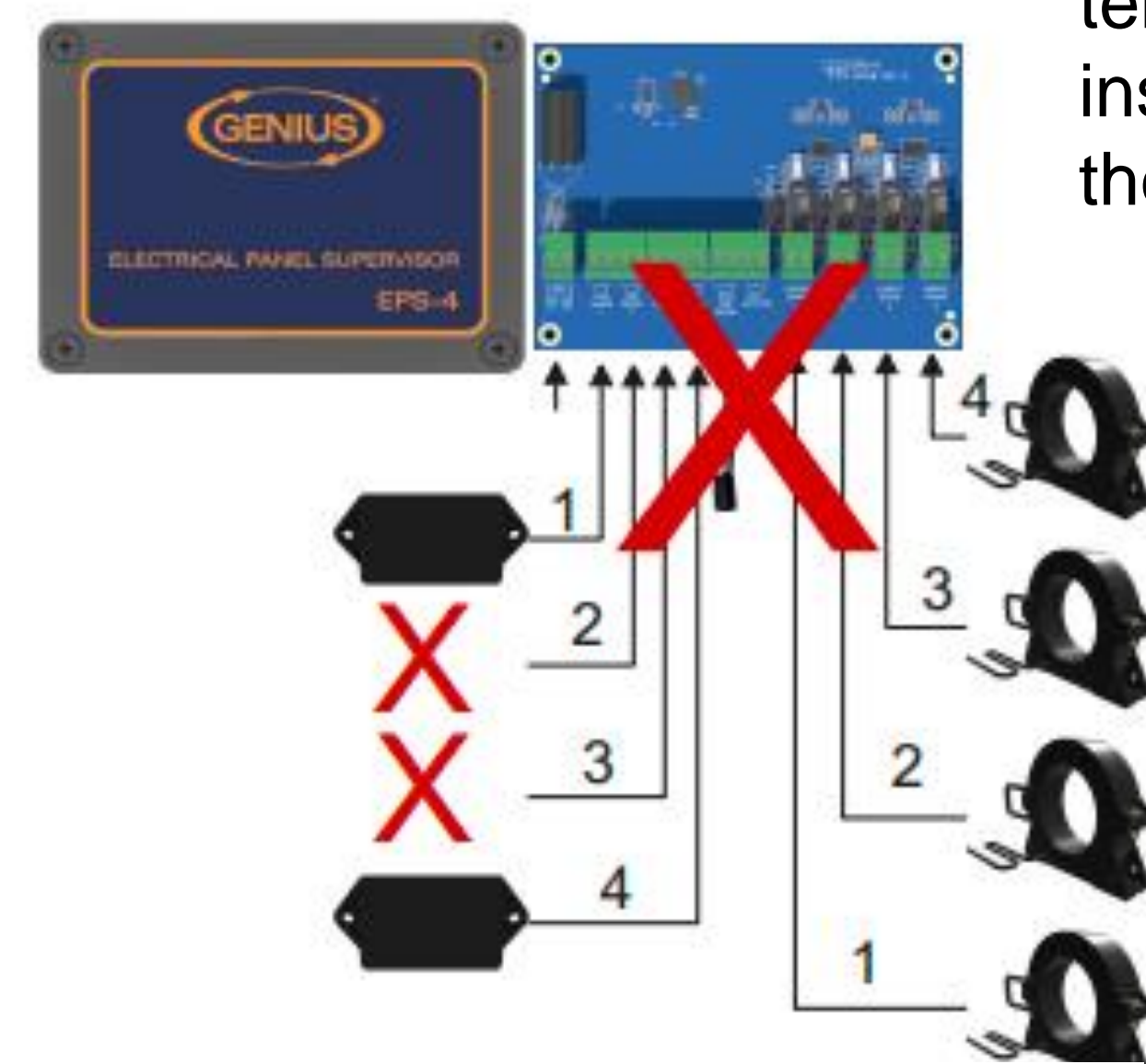
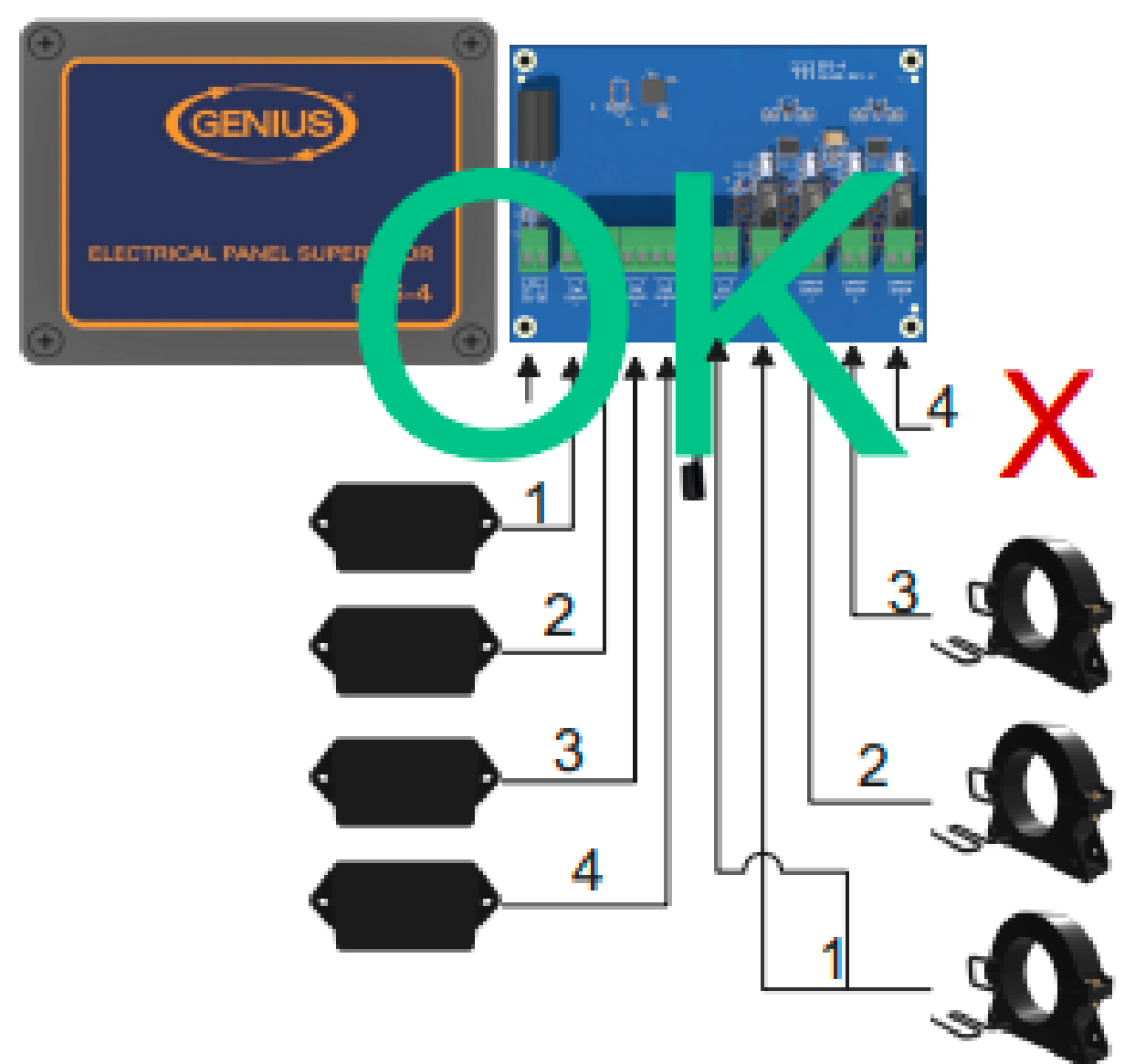
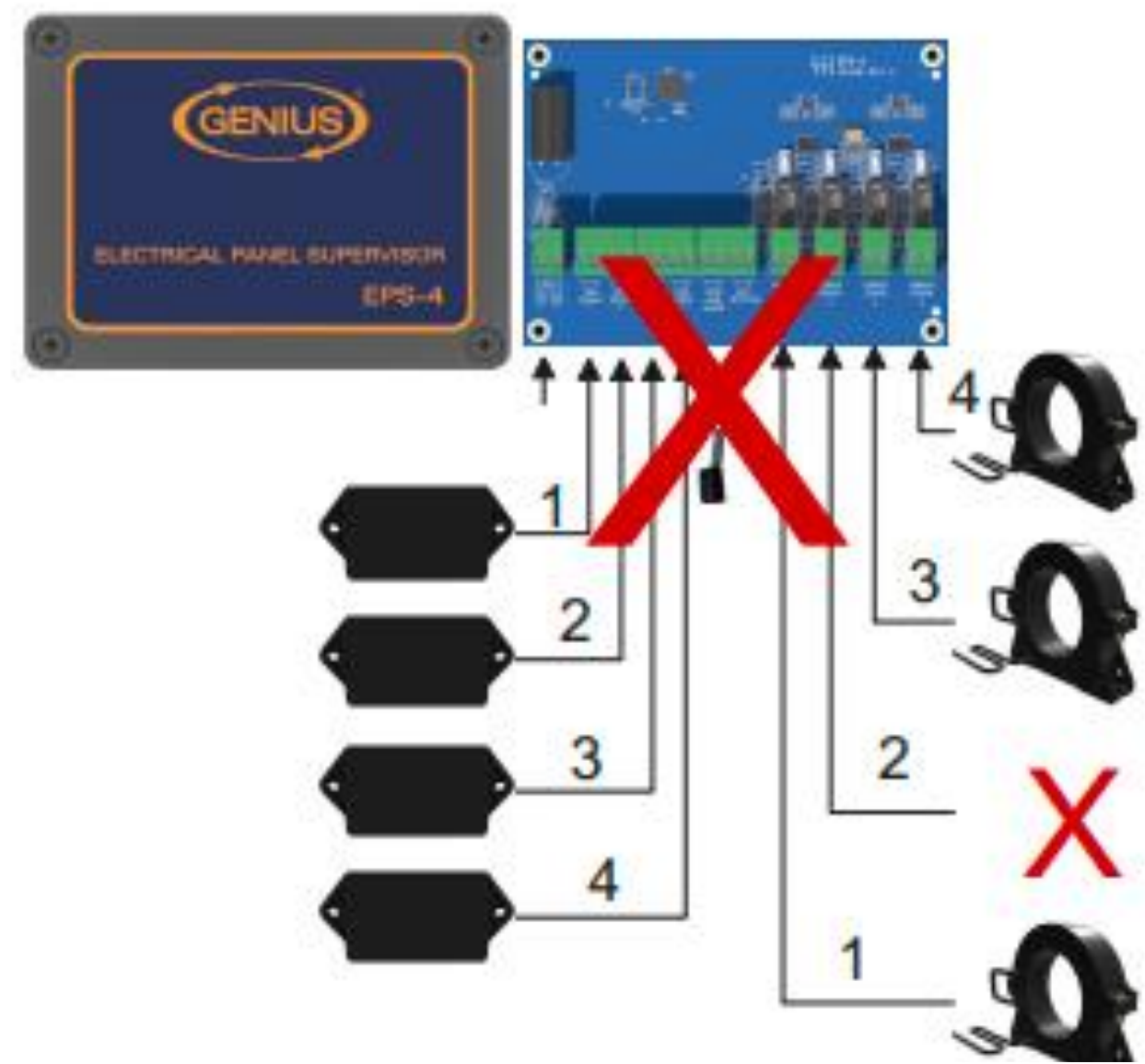
1 MGCB Connector

MGCB communication cables
Shielded wires AWG #22
Maximum capacitance between conductors @ 1Khz = 24pF/foot)
TWISTED (8 twists per foot),
MAXIMUM LENGTH of 250 m (820 feet)
(Ex.: BELDEN 8761)

Low tension wires (communication)
Install at least 30 cm (12 inches) away from high tension wires (120/230 VAC, 24 VDC)
Always cross high tension and low tension wires at 90-degree angles.
Do not connect more than one wire per green terminal block. If you must use more than one wire, use a second coupling.

2 TEMP SENSOR 1-4 Connectors

These connectors are attached to magnetized 2004-10K/MB probes installed within the electrical panels or at the switch at the top.



3 ROOM TEMP SENSOR connector

This connector is attached to a 2004-10K temperature probe. This probe is installed inside the electrical chamber to measure the room temperature.

Connecting probes and CT

Depending on the number of probes and CTs required, it is possible that some ROOM TEMP SENSOR connectors (in the case of probes) or CURRENT SENSOR connectors (for CTs) will not be used.

In this situation, **ALWAYS** use connectors in increasing numerical order, without "skipping" any connector.

Look at the examples on the left to better understand this principle.

Compatibility with Current Transmitters (CT)

The EPS-4 module is compatible with current transmitters (CT)

2000:1 and 1000:1 (by default: 2000:1)

This is selectable through a slide switch.



IMPORTANT: this installation **MUST** be completed by a certified electrician in order to receive a certificate of conformity for your insurance company

5 CURRENT SENSOR 1-4 connectors

These connectors allow for the reading of current values.

The CT is installed around wires (Line, Neutral). The ground must never be passed through a CT.

Cable used as an extension for CT:

AWG #18

MAXIMUM LENGTH 75 m (250 feet)

4 HEAT DETECTOR connector

This connector allows for the connection of a heat detector apparatus. It is also possible to connect a dry contact for panel supervision.



EPS-4

Product sheet v1.0

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