Sigma Gateway - Operating Modes

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Introduction

The Sigma Gateway (PR02899) currently offers the following operating modes:

1. ETHERNET – Modbus TCP interface, Sigma Unity.

2. SIGMA IN – Use the Sigma Hand-held to control.

4. USB – Sigma Unity, Sigma PC or Sigma PC Basic interface direct through Gateway.

Each mode offers a way of connecting a network of one or more Sigma LT and Sigma 2 load banks to control with Sigma Software.

- ❑ Select the mode by rotating the MODE switch to the correct position.
- ❑ Some Modes use the STATION NUMBER to set the Sigma Network Address. This address must be unique and between 1 and 14.
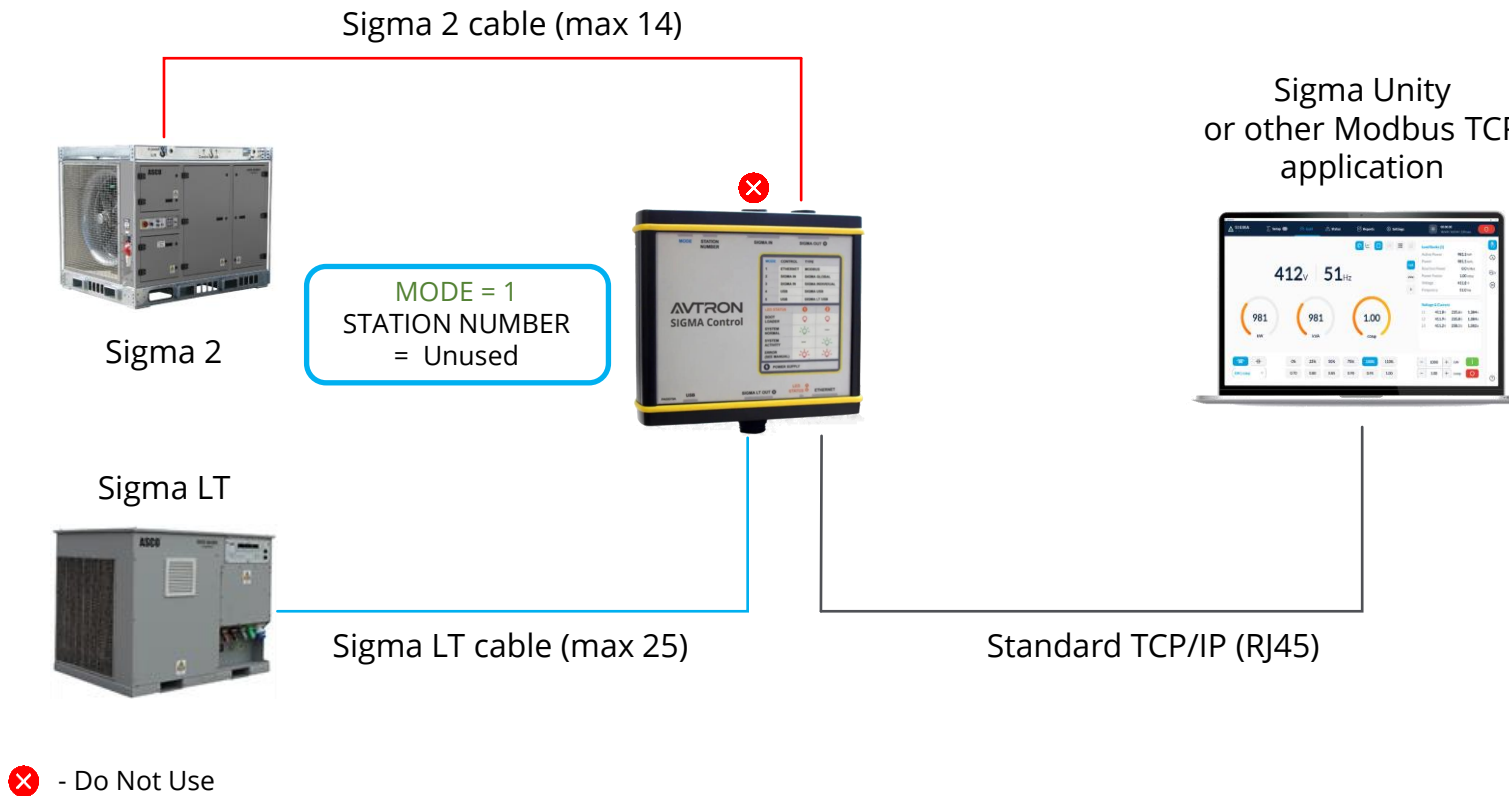
Standard Accessories

Each Sigma Gateway (PR02899) is supplied with the following accessories:

❖ PR10462 – Sigma Gateway IN Adapter. (*)

❖ PR10466 – Sigma Gateway OUT Adapter. (*)
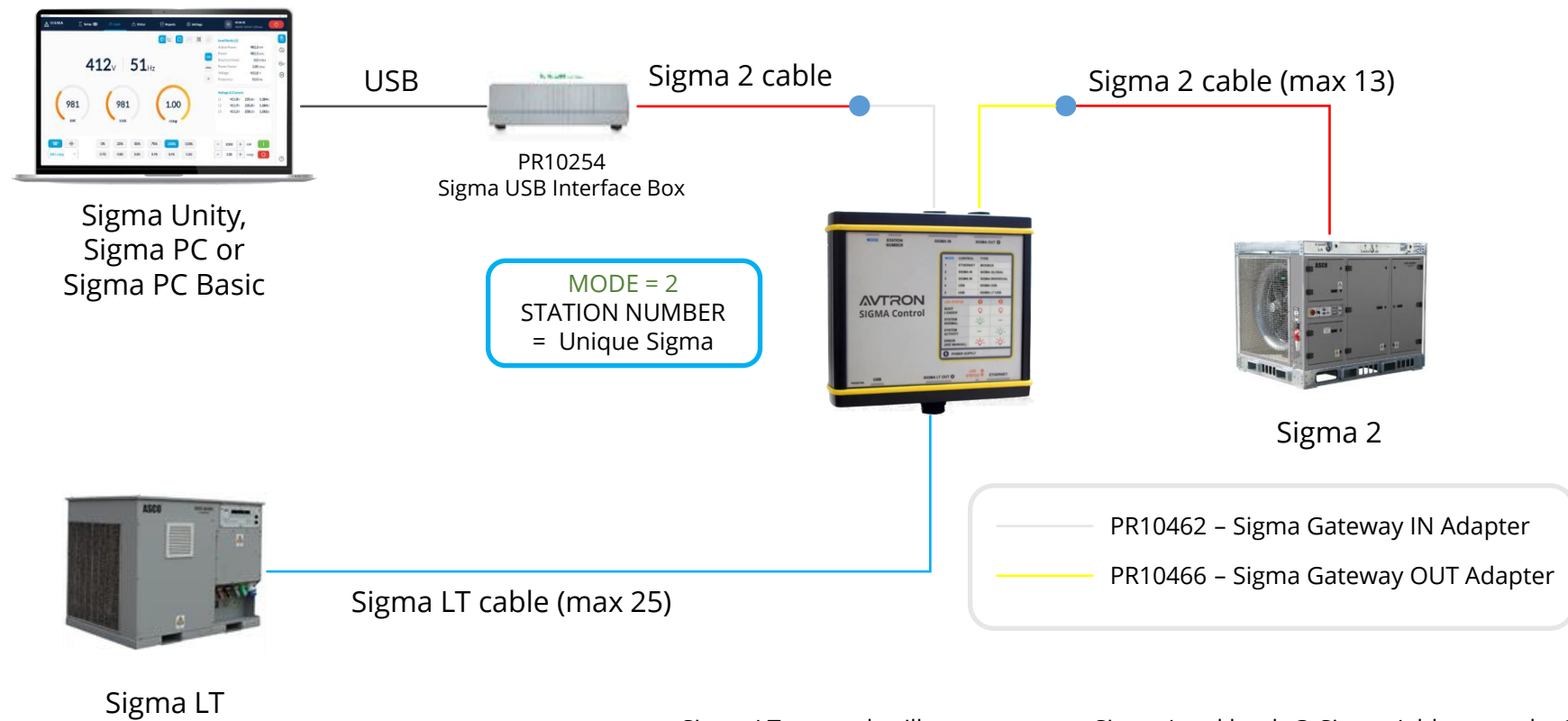
❖ PR03262 – Sigma Gateway USB Lead (Micro-USB).

* Required for Mode 2.

Sigma Gateway Mode 1

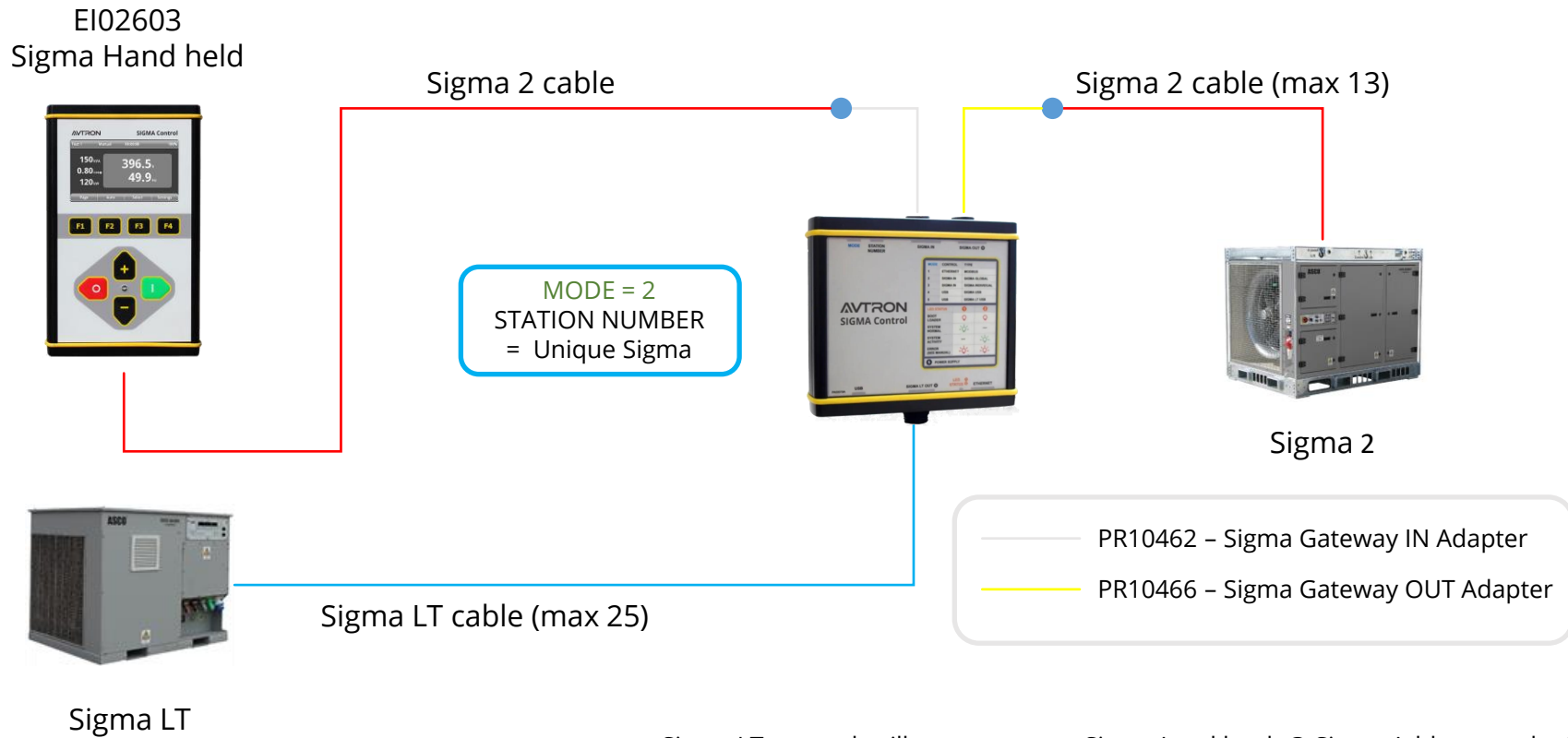Sigma 2 reactive load banks supported in firmware v4.40 and above.

Sigma 2 cable (max 14)

Sigma Unity
or other Modbus TCP
application

MODE = 1
STATION NUMBER
= Unused

Sigma 2

Sigma LT

Sigma LT cable (max 25)

Standard TCP/IP (RJ45)

❌ - Do Not Use

Sigma Gateway Mode 2

USB

Sigma 2 cable

Sigma 2 cable (max 13)

PR10254
Sigma USB Interface Box

Sigma Unity,
Sigma PC or
Sigma PC Basic

MODE = 2
STATION NUMBER
= Unique Sigma

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SIGMA Control

Sigma 2

Sigma LT cable (max 25)

PR10462 – Sigma Gateway IN Adapter

PR10466 – Sigma Gateway OUT Adapter

Sigma LT

Sigma LT network will appear as one Sigma Load bank @ Sigma Address set by STATION NUMBER switch.
Modbus registers will only show Sigma LT load banks in this mode, use Mode 1 for full support.

Sigma Gateway Mode 2

EIO2603
Sigma Hand held

Sigma 2 cable

Sigma 2 cable (max 13)

MODE = 2
STATION NUMBER
= Unique Sigma

Sigma 2

PR10462 – Sigma Gateway IN Adapter

PR10466 – Sigma Gateway OUT Adapter
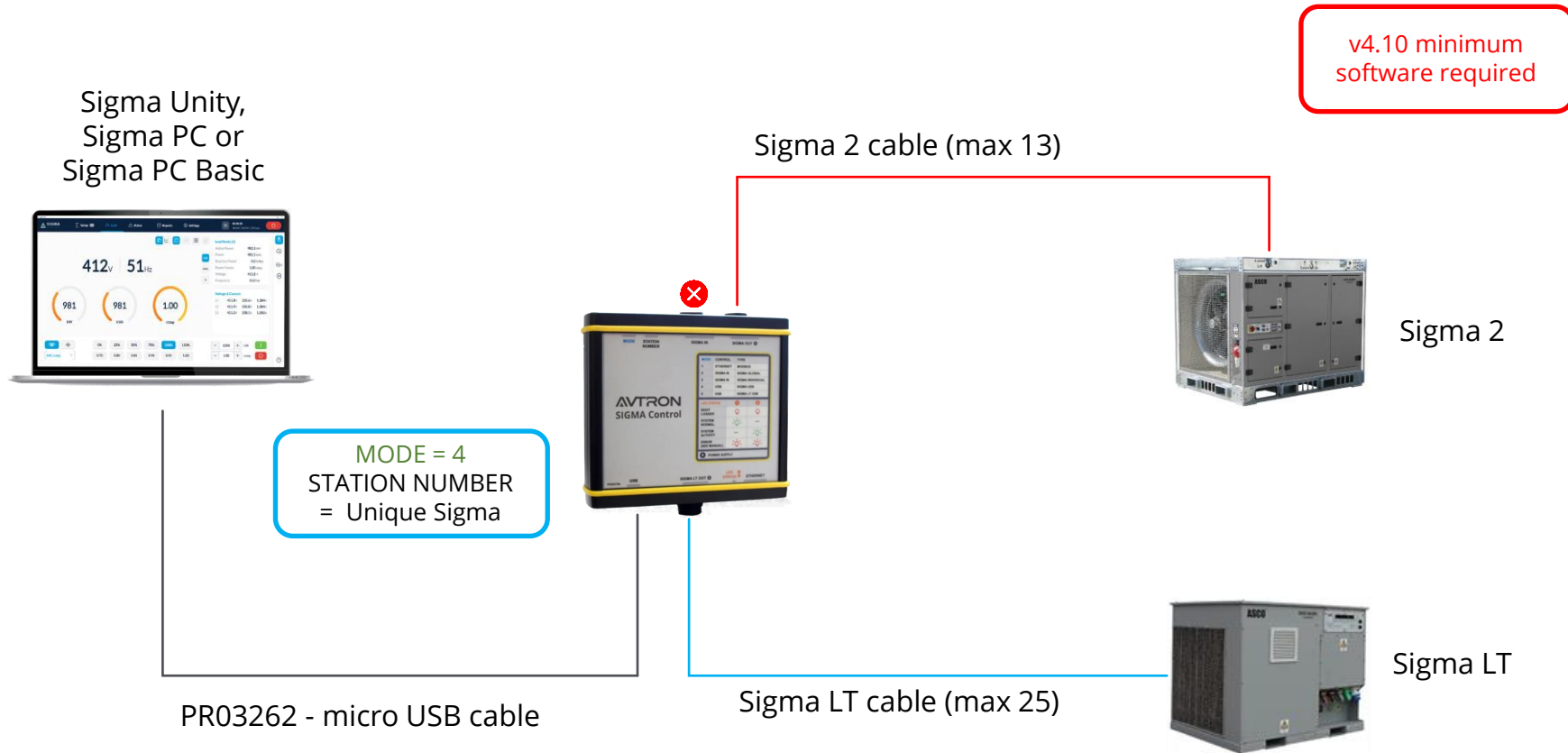
Sigma LT cable (max 25)

Sigma LT

Sigma LT network will appear as one Sigma Load bank @ Sigma Address set by STATION NUMBER switch.
Modbus registers will only show Sigma LT load banks in this mode, use Mode 1 for full support.

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Sigma Gateway Mode 4

v4.10 minimum software required

Sigma Unity, Sigma PC or Sigma PC Basic

Sigma 2 cable (max 13)

Sigma 2

MODE = 4
STATION NUMBER = Unique Sigma

PR03262 - micro USB cable

Sigma LT cable (max 25)

Sigma LT

❌ - Do Not Use

Sigma LT network will appear as one Sigma Load bank @ Sigma Address set by STATION NUMBER switch. Modbus registers will only show Sigma LT load banks in this mode, use Mode 1 for full support.

Sigma Gateway Label