

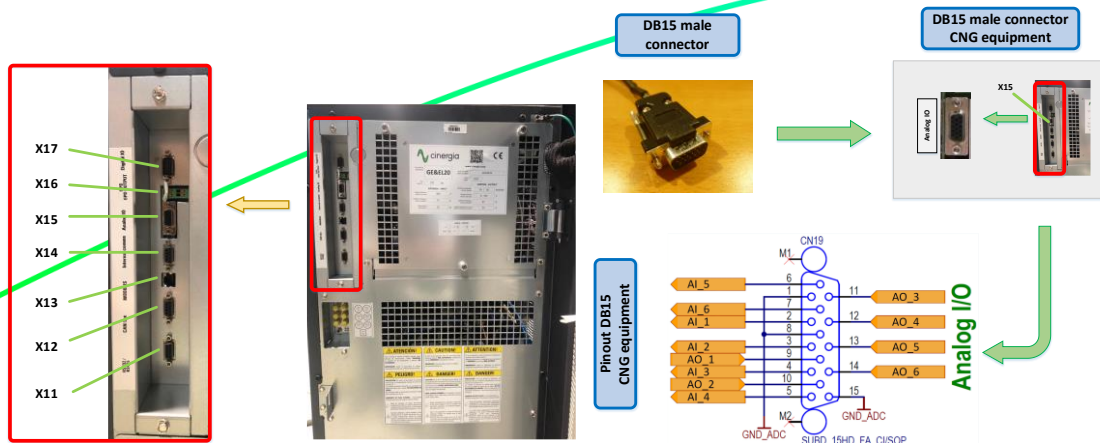
1. POWER AMPLIFIER MODE

This document is a Quick procedure document to operate the unit In Power Amplifier mode.



Please read the **PR365A00_External operation. Inputs and Outputs CNG_UNITS ePLUS** document before operating the unit in Power Amplifier option mode.

Analogue inputs and outputs are located in **X15**. All of them are isolated and located in the front of the equipment:



Please be sure to read carefully all the information provided with the Cinergia converter types to fully understand the functionalities of your equipment.



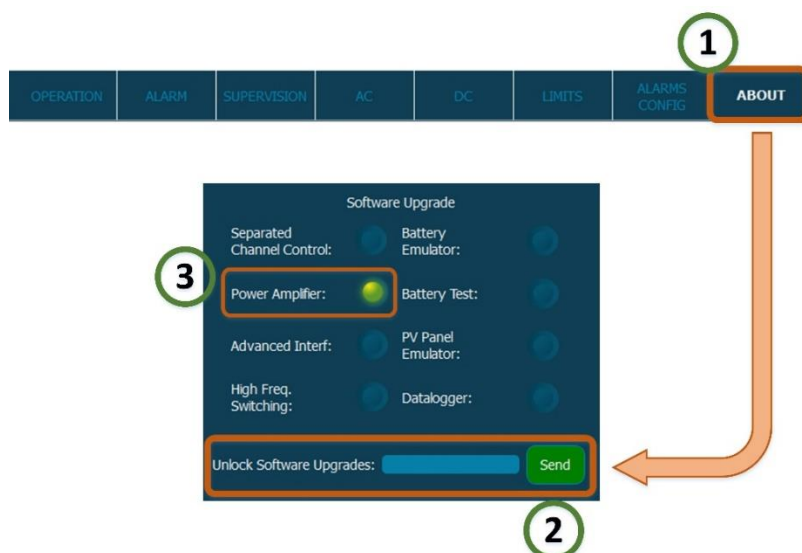
The analogue inputs accept a voltage range from -10V to +10V and the analogue output delivers a voltage range from -10V to +10V. Both input and output are referenced to GND_ADC; pin 1, 8 and 15. Applying an upper voltage or current can make irreversible damage to the equipment. Applying any voltage at the analogue output pins can make irreversible damage to the equipment.

2. QUICK OPERATION

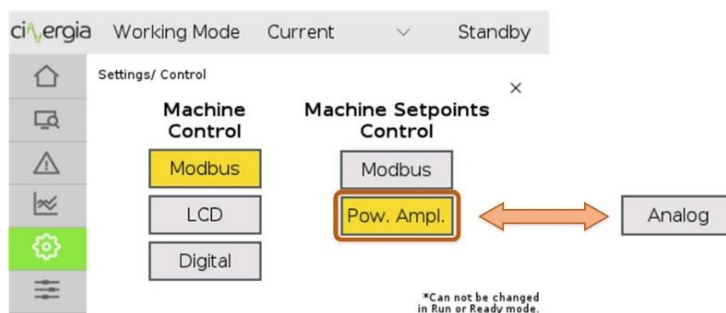


To activate this Optional, contact Cinergia to get the upgrade code. Upgrading it has an additional cost.

- STEP 1:** Connect to the unit through Modbus using the Cinergia Interface provided.
- STEP 2:** Go to *About* tab. The unit must be in *Stand By* or *Alarm* status.
- STEP 3:** The delivered code must be introduced in the *Unlock extra* reserved space and, afterwards, press the button *Send* (number 2 in the figure below). When the Power Amplifier is activated, the LED beside the option (3 in the figure below) is shining:



- D. **STEP 4:** The user must configure the Power Amplifier mode by the LCD. Go to the setting tab from the LCD and press Power Amplifier on Setpoints control as picture below:



The unit is ready to be controlled by Analogue inputs in Power Amplifier mode.

The analogue INPUT used in this mode are shown on the following table. The other three analogue input are not used. Each analogue input corresponds on one phase.

X15 CNG EQUIPMENT PINOUT	Analogue signal	Phase	PIN DB15
ANALOGUE INPUT	AI_1	SP_U	2
	AI_2	SP_V	3
	AI_3	SP_W	4
GND			1, 8, 15



The maximum admitted voltage to the analogue input signals is 20V_{pp} (±10V).

In case of AC mode:

- In case of **Voltage source (GE)**, the SP will be the **REALTIME** voltage value, and
- in case of **Current Source (EL)**, the SP will be the **REALTIME** current value.