



## Equipment Installation and Commissioning Checklist (V1.7)

**Note: Completed checklist required for product warranty and support eligibility. Please read manual prior to installation for important safety and installation details. Complete, sign and submit this checklist & supporting information to your Rhombus sales and/or service representative prior to energizing the equipment. **WARNING: Failure to provide this prior to energizing system may void the warranty!****

Site Address:		
PCS Model #:	Serial #:	
Dispenser Model #:	Serial #:	
Inst. by: (Co. Name):	Employee Name:	Lic. #:
Comm. By: (Co Name):	Employee Name:	
Comm. Signature:	Date:	

#	X	Description
1		Read the product installation manual. Verify AC feed to PCS has been LOTO
2		PCS bolted/secured to mounting pad to prevent tipping.
3		Verify wire gauge, shielding and insulation ratings comply w/ PCS requirements and applicable safety regulations.
4		Verify all high voltage DC (power and sense) wire insulation resistance using an insulation tester prior connecting to PCS or Dispenser to check for possible wire or cable damage. Ref: Fluke 1520 1kV Insulation Tester/Megaohm meter or similar.
		<b>High voltage DC power cables:</b>
		<input type="checkbox"/> HV+ to HV- _____ MΩ
		<input type="checkbox"/> HV+ GND _____ MΩ
		<input type="checkbox"/> HV- to Gnd _____ MΩ
		<b>High voltage DC sense wires:</b>
		<input type="checkbox"/> HV+ to HV- _____ MΩ (Must be greater than 0.5MΩ to Pass)
		<input type="checkbox"/> HV+ GND _____ MΩ (Must be greater than 0.5MΩ to pass)
		<input type="checkbox"/> HV- to Gnd _____ MΩ (Must be greater than 0.5MΩ to pass)
5		Connect PCS ground terminal to earth ground.
6		Measure PCS earth ground resistance. Eg: Recommend Fluke 1630 or similar <input type="checkbox"/> _____ Ω (Must be less than 10Ω)
7		Single Line Diagram ( <b>Attach Image or PDF</b> )
8		Picture of site/supply transformer plate rating referenced in single line diagram.
9		Ensure 480VAC AC Line Circuit provided with appropriate maximum branch-circuit overcurrent protection in accordance with the National Electrical Code, ANSI/NFPA 70
10		Connect AC Grid connections to the PCS L1 (A), L2 (B), L3 (C), N, Gnd
11		Verify 3P AC phase ID and clockwise rotation w/ meter. (Fluke 9040 Phase Rotation Indicator or similar) <b>Do not energize the machine!</b> Measure at the AC connection points in the machine.
12		Connect high voltage DC power cables (DC+, DC-) from PCS to the Dispenser.
13		Connect high voltage DC voltage sense wires from dispenser (DC+,DC-) terminal block to PCS's HV sensor ("Verivolt Isoblock").
14		Connect shielded / twisted pair CAN and ModBus communication wires from PCS to the Dispenser terminal blocks. CAN Shield is to be terminated on PCS and Dispenser. <b>ModBus Shield is to be terminated ONLY at PCS.</b>
15		Connect 24Vdc and 12Vdc signal wires from PCS to Dispenser.
16		Connect Remote Emergency Power Off (EPO) from Dispenser to PCS.
17		Secure top LED light assembly onto top of GEN2 dispenser. (Step 4 in dispenser manual)
18		Connect 4x wires from LED assembly to upper terminal block. (See step 4 in dispenser manual)
19		Connect 4x cables from antenna on top of dispenser to modem. (See step 5 in dispenser manual)
20		Complete dispenser installation and wiring.
21		Picture(s) of PCS high voltage AC and DC wiring terminations.
22		Pictures(s) of dispenser high voltage DC wiring terminations.
23		Pictures of dispenser circuit boards (Need to read serial # and barcode)
24		Clear close up pictures of PCS and Dispenser Customer Terminal Block Connections
25		Pictures of PCS Installation: Front, Left side, Right side
26		Pictures of Dispenser Installation, Front, Left, Right side
27		Pictures of Electrical supply panel and breaker
28		Close and latch PCS and Dispenser doors





## Warranty and Maintenance Terms and Conditions Acceptance

Company Name

### Contact Information

Commercial	Name:
	Address:
	Phone #:
	E-mail:
Technical / Maintenance	Name:
	Address:
	Phone #:
	E-mail:

### Site and Product Information

Site Address: (filled in by Rhombus)

PCS Model #: (filled in by Rhombus)

Serial #:

Dispenser Model #: (filled in by Rhombus)

Serial #:

**Customer has received, read and agreed to Rhombus Terms and Conditions as they relate to product warranty, liability and associated preventative maintenance as defined in Exhibit A (Attached)**

*Authorized Customer Representative*

By:

Name:

Title:

Date:

*Completed form to be provided to your Rhombus sales representative. Customer will be notified of warranty activation upon receipt of signed form.*