



Secondary CO2 460V Parameter List

Emerson Setup:

1. Turn Power On
2. Push the Set and Down Arrow Buttons at the same time and Hold until screen asks for the Password
3. Enter "12" as the password and push "Set"
4. Use the up and down arrows to scroll through options and set the following parameters

Parameter	Description	Setting
H5	Password	12
-uC	Unit Conversion	1 (English Units)
Adr	Modbus Address	1,2 (Set controller 1 to 1 and controller 2 to 2)
br	Modbus Baudrate	0 (9600)
PAr	Modbus Parity	0 (Parity Even)
1Fct	Function	0 (Superheat Control)
1u0	Refrigerant	Default
1uP	Pressure Sensor Type	1 (PT5N-18M)
1ut	Expansion Valve	0 (Ex4-6)
1u4	Control Mode Circuit 1	2 (Intermediate Control)
1u5	Superheat Setpoint	6.0 (Degrees)
1uL	Low Superheat Alarm	0 (Disabled)
2u0	Refrigerant	Default
2uP	Pressure Sensor Type	1 (PT5N-18M)
2ut	Expansion Valve	0 (Ex4-6)
2u4	Control Mode Circuit 2	2 (Intermediate Control)
2u5	Superheat Setpoint	6.0 (Degrees)
2uL	Low Superheat Alarm	0 (Disabled)

ABB VFD Parameter Setup

To begin setup:

1. Navigate to the Main screen.
2. Select "Menu".
3. Scroll to the bottom of the list to "Parameters".
4. Select "Complete List".
5. Set the Following Parameters

Parameter	Description	Setting
19.11	EXT1/EXT2 SELECTION	EXT1
20.01	EXT1 COMMANDS	IN1 START
20.40	RUN PERMISSIVE	NOT SELECTED
20.41	START INTERLOCK	NOT USED
22.11	EXT1 SPEED REFERENCE	A1 SCALED
23.12	ACCELERATION TIME 1	10s
23.13	DECELERATION TIME 1	10s
30.13	MINIMUM FREQUENCY	0 Hz
30.14	MAXIMUM FREQUENCY	60 Hz
30.17	MAXIMUM CURRENT	4.5 A
99.06	MOTOR NOMINAL CURRENT	4.1A
99.07	MOTOR NOMINAL VOLTAGE	460 or 208 Store Dependent
99.08	MOTOR NOMINAL FREQUENCY	60 Hz
99.09	MOTOR NOMINAL SPEED	3450 RPM
99.10	MOTOR NOMINAL POWER	3.0 Hp