

ARTESIS PCM MV LINE QUICK INSTALLATION GUIDE

ARTESIS PCM Connections

1. Connect Artesis PCM sockets except communication socket as shown in the connection diagram.
2. Once the motor connections are completed. Apply power to the ARTESIS PCM unit.
3. Ensure that Power led and LCD lights are on.
4. Ensure that "IDLE" message appeared in the LCD display.
"ENTER" key in the front panel is used to enter a menu or to confirm an entered value. "CLEAR" key is used to return to previous menu or to cancel a process.

Entering Settings Menu

1. Go to "Edit Settings" menu using ↓ key.
2. Press "ENTER" key twice. "Enter password; ****" will appear in the LCD display.
3. Enter "m****" letter using ↑ key.
4. Press "ENTER" key four times. "Configuration; Motor values" will appear in the LCD display.

Entering ARTESIS PCM Communication Address

1. Go to "Configuration; Comm. settings" menu using ↑ key.
2. Press "ENTER" key four times. "Device address; Edit 0" will appear in the LCD display.
3. Enter communication address using ↑↓ keys.
If there are more than one ARTESIS PCM's connected to the system, ensure that each ARTESIS PCM has a unique address between 1-255.
4. Press "ENTER" key twice to confirm ARTESIS PCM address.
5. Press "CLEAR" key twice. "Configuration; Comm. settings" will appear in the LCD display.

Entering ARTESIS PCM Nominal Voltage

1. Go to "Configuration; Motor settings" menu using ↑↓ keys.
2. Press "ENTER" key four times to go to "Nominal voltage; Edit 230" menu.
3. Enter motor nominal phase to neutral voltage using ↑↓ keys.
Motor nominal voltage has to be entered as phase-neutral voltage!
4. Press "ENTER" key twice to confirm voltage value.

Entering ARTESIS PCM Nominal Current

1. Press ↑ key to go to "Nominal current; Display 300" menu.
2. Press "ENTER" key twice. "Nominal current; Edit 300" will appear in the LCD display.
3. Enter motor nominal current using ↑↓ keys.
4. Press "ENTER" key twice to confirm current value.

Entering ARTESIS PCM Nominal Frequency

1. Press ↑ key to go to "Nominal freq.; Display 50.00" menu.
2. Press "ENTER" key twice. "Nominal freq.; Edit 50.00" will appear in the LCD display.
3. Enter motor nominal frequency using ↑↓ keys.
4. Press "ENTER" key twice to confirm frequency value.



Entering Motor Speed

1. Press **↑** key to go to "Nominal RPM; Display 1500" menu.
2. Press "ENTER" key twice. "Nominal RPM; Edit 1500" will appear in the LCD display.
3. Enter motor speed using **↑↓** keys.
4. Press "ENTER" key twice to confirm motor speed value.

Entering Motor Connection Type

1. Press **↑** key to go to "Connection type; Display Star" menu.
5. Press "ENTER" key twice. "Connection type; Edit Star" will appear in the LCD display.
6. Enter motor connection type using **↑↓** keys.
7. Press "ENTER" key twice to confirm motor connection type.

Entering Calibration Values

1. Press "CLEAR" key twice and using **↑↓** keys go to "Configuration; Calibration" menu.
2. Press "ENTER" key twice and using **↑↓** keys go to "V Channel1; Display 1.000" menu.
3. Press "ENTER" key twice. "V Channel1; Edit 1.000" will appear in the LCD display. Enter voltage calibration value using **↑↓** keys. For instance if there is a 6300/100 voltage transformer connected to motor, voltage calibration value must be entered as 63.
4. Press "ENTER" key twice to confirm voltage calibration value and using **↑↓** keys go to "V Channel2; Display 1.000" menu.
5. Press "ENTER" key twice. "V Channel2; Edit 1.000" will appear in the LCD display. Enter voltage calibration value using **↑↓** keys.
6. Press "ENTER" key twice to confirm voltage calibration value and using **↑↓** keys go to "V Channel3; Display 1.000" menu.
7. Press "ENTER" key twice. "V Channel3; Edit 1.000" will appear in the LCD display. Enter voltage calibration value using **↑↓** keys.
8. Press "ENTER" key twice to confirm voltage calibration value and using **↑↓** keys go to "I Channel1; Display 1.000" menu.
9. Press "ENTER" key twice. "I Channel1; Edit 1.000" will appear in the LCD display. Enter current calibration value using **↑↓** keys. For instance if there is a 100/5 current transformer connected to motor, current calibration value must be entered as 20.
10. Press "ENTER" key twice to confirm current calibration value and using **↑↓** keys go to "I Channel2; Display 1.000" menu.
11. Press "ENTER" key twice. "I Channel2; Edit 1.000" will appear in the LCD display. Enter current calibration value using **↑↓** keys.
12. Press "ENTER" key twice to confirm current calibration value and using **↑↓** keys go to "I Channel3; Display 1.000" menu.
13. Press "ENTER" key twice. "I Channel3; Edit 1.000" will appear in the LCD display. Enter current calibration value using **↑↓** keys.
14. Press "ENTER" key twice to confirm current calibration value.
15. Press "CLEAR" key four times to go to main menu. "IDLE" will appear in the LCD display.

Starting ARTESIS PCM Check Mode

1. Before sending ARTESIS PCM unit to check mode, ensure that motor is running and voltage and current sockets are connected.
2. Press **↑** key to go to "Check" menu.
3. Press "ENTER" key twice to send ARTESIS PCM to "CHECK" mode.
4. Wait until "CHECK" mode is finished. Check mode will take approximately 2 minutes.
5. Once "CHECK" mode is finished, ARTESIS PCM will display either the message "Motor values" or a warning or alarm indication. At this point **↑↓** keys can be used to cycle through a list of calculated parameters. If an "Alarm" is present, left and right keys will cycle through the list of alarms. In this case problem related with this Alarm should be fixed and ARTESIS PCM should be sent to "CHECK" mode one more time. Please refer to ARTESIS PCM User's Manual for details.

Starting ARTESIS PCM

1. Press "CLEAR" key twice to go to main menu. "IDLE" will appear in the LCD display.
2. Go to 'Run' menu using **↑↓** keys and press 'ENTER' key twice to start ARTESIS PCM.
3. At this point "Lose learn data? Clear to exit" message might appear. If you see this message, press 'ENTER' key to accept.
4. 'LEARN; iteration 1' message will appear in the LCD display. Ensure that iteration number increases every 1.5 minutes.
5. Connect communication socket and establish computer connection through MCMSCADA + Diagnostics and finish ARTESIS PCM installation.

