

## MCM LV LINE QUICK INSTALLATION GUIDE

### MCM Connections

1. Connect MCM sockets except communication socket as shown in the connection diagram.
2. Once the motor connections are completed. Apply power to the MCM 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 MCM 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 MCMs connected to the system, ensure that each MCM has a unique address between 1-255.*
4. Press "ENTER" key twice to confirm MCM address.
5. Press "CLEAR" key twice. "Configuration; Comm. settings" will appear in the LCD display.

### Entering MCM 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 MCM 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 MCM 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 Voltage and Current 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 “I Channel1; Display 1.000” menu.
3. Press “ENTER” key twice. “I Channel1; Edit 1.000” will appear in the LCD display.
4. 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. If there is no current transformer calibration values must be 1.0. In this case go to 10.
5. Press “ENTER” key twice to confirm current calibration value and using **▲**/**▼** keys go to “I Channel2; Display 1.000” menu.
6. Press “ENTER” key twice. “I Channel2; Edit 1.000” will appear in the LCD display. Enter current calibration value using **▲**/**▼** keys.
7. Press “ENTER” key twice to confirm current calibration value and using **▲**/**▼** keys go to “I Channel3; Display 1.000” menu.
8. Press “ENTER” key twice. “I Channel3; Edit 1.000” will appear in the LCD display. Enter current calibration value using **▲**/**▼** keys.
9. Press “ENTER” key twice to confirm current calibration value.
10. Press “CLEAR” key four times to go to main menu. “IDLE” will appear in the LCD display.

### Starting MCM Check Mode

1. Before sending MCM 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 MCM to “CHECK” mode.
4. Wait until “CHECK” mode is finished. Check mode will take approximately 2 minutes.
5. Once “CHECK” mode is finished, MCM 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 MCM should be sent to “CHECK” mode one more time. Please refer to MCM User’s Manual for details.

### Starting MCM

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 MCM.
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 and finish MCM installation.

