VFD Display Card Operational Manual

AV-VFD DISPLAY CARD has 8 keys: MODE KEY, INC KEY, SHIFT KEY, ESC KEY, RUN KEY, FWD/REV KEY and RST/STOP KEY.

MODE KEY: When the user presses the mode key during display mode, that time user can select three menus. These three menus are Select drive, Set Parameter, Show Parameter.

INC KEY: When the user changes the value of set RPM or PRESET RPM that time user has to press this key to select desirable value. As there is no decrement key the user has to use this key to change from 0 to 9 digits.

SHIFT KEY: While changing to different menus, parameter options and also value of RPM, user can browse through menus, parameters and select each digit of RPM value (i.e. 1000s, 100s, 10s, decimal position) by using SHIFT KEY.

ESC KEY: When user wants to come out of any mode user must press this key and control changes to RUN mode.

FWD/REV KEY: This key is enabled only when controller is in Manual mode and motor can RUN in FORWARD and REVERSE direction. Only one direction can be enabled at a time and direction can be changed by pressing the same key.

RUN KEY: When user wants to START VFD that time user MUST press RUN KEY.

STOP/RST KEY: User can stop motor by pressing STOP KEY.

DISPLAY MODE: The first thing user will see during POWER ON is **DISPLAY MODE.** In this mode the **AV-VFD DISPLAY CARD** will be flashing the different (selected by user) parameters with their values (Frequency, RPM, Voltage, torque, etc.).

MENU MODE: When the user presses the mode key during **DISPLAY MODE**, that time user can select three menus. These three menus are **SET PARAMETER, SELECT DRIVE and SHOW PARAMETER**. The user can select any of the menus by pressing the **ENTER KEY.**
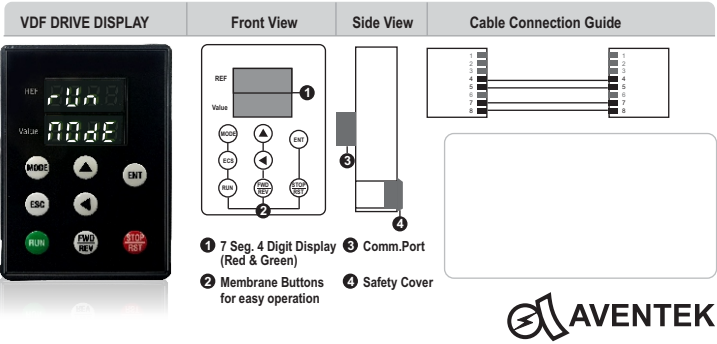
SET PARAMETER: This menu has two modes i.e. preset rpm and Auto/manual mode.

PRESET RPM: In this mode user set preset value of motor rating in RPM. This value is retained by controller. Value of Preset rpm can be set using INC KEY and each digit can be accessed by SHIFT KEY and this value can be saved by pressing ENTER KEY.

AUTO/MANUAL MODE: In this mode, user has to choose whether to run the drive in auto mode or manual mode by pressing the **ENTER KEY.** To run the drive through POT or any other means then select **AUTO MODE. In MANUAL MODE** user will run the drive through **AV-VFD DISPLAY CARD.** After selecting the **MANUAL MODE** user has to set the desired rpm in **SET RPM** option. Value of **SET RPM** can be set using **INC KEY** and each digit can be accessed by **SHIFT KEY** and this value can be saved by pressing **ENTER KEY**. Motor will run by pressing the **RUN KEY** in **MANUAL MODE** after setting the **SET RPM** value**.**

SELECT DRIVE: In select drive menu, user can select the desirable drive (ATV 12, ATV 71, ATV 310, ATV 312, ATV 320, ATV 340, ATV 600) by pressing the **ENTER KEY**. Once the drive is selected user will be brought back to menu mode. Press the **SHIFT KEY** for next menu.
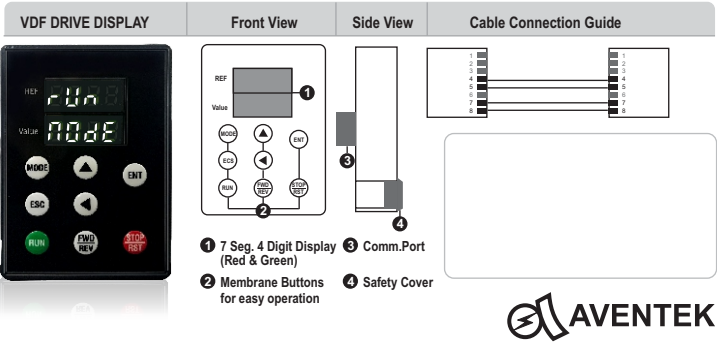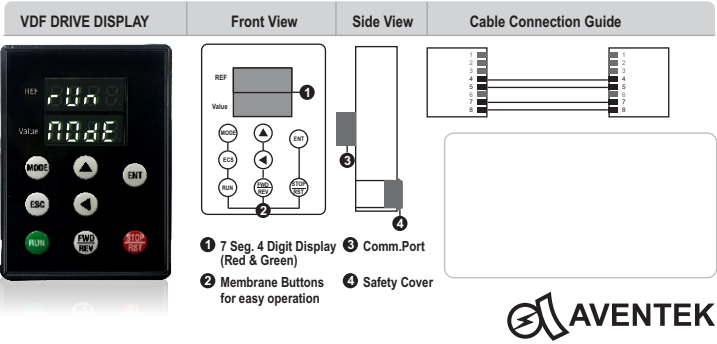
SHOW PARAMETER: In this mode, user gets option to select the required parameters. By pressing the **ENTER KEY,** user gets various options as whether to select frequency, rpm, current, etc. or not. When user presses the **ENTER KEY** again, user gets option as **yes** or **no** (use **shift key** for next option). If user wishes to display any of the option (Frequency, RPM, Voltage, torque, etc.) then simply press the **ENTER KEY** during **yes** option or press the **ENTER KEY** during **no** option. After selecting **yes** or **no** user will be brought back to parameter option (freq y_n, rpm y_n, etc.)**.** Next parameter can view by pressing the **SHIFT KEY.** After completion of all the parameter options the **AV-VFD DISPLAY CARD** will automatic go to **DISPLAY MODE** where the selected parameter will be flashed one after the other.

VDF DRIVE DISPLAY	Front View	Side View	Cable Connection Guide

❶ 7 Seg. 4 Digit Display (Red & Green)　❸ Comm.Port
❷ Membrane Buttons for easy operation　❹ Safety Cover

AVENTEK