MITOS VT6 CONTROL MODES

Several control modes can be selected. MITOS VT6 can be used to start/stop the motor, change its direction, modify its speed, or else, simply used as a remote display with no inverter control capability. Refer to following table for selecting MITOS VT6 control mode depending on inverter model:

Model	VF-NC1	VF-S11	VF-FS1	VF-AS1	VF-PS1
Control mode	Cmod=1 Fmod≠3	Cmod=1 Fmod≠4	Cmod=2 Fmod≠4	Cmod=2 Fmod≠5	Cmod=2 Fmod≠5
Frequency mode	Cmod≠1 Fmod=3	Cmod≠1 Fmod=4	Cmod≠2 Fmod=4	Cmod≠2 Fmod=5	Cmod≠2 Fmod=5
Control + Frequency mode	Cmod=1 Fmod=3	Cmod=1 Fmod=4	Cmod=2 Fmod=4	Cmod=2 Fmod=5	Cmod=2 Fmod=5

CONFIGURATION MENU

By pressing these keys together at start up, the VT6 configuration menu is entered.

MENU CHOICES

Use arrow keys to move inside the Menu. Use the FWD and REV keys to make the selections and STOP/RESET key to exit the configuration menu. With this menu is possible to select and monitor:

- **Enabling of FWD and REV keys**: Use the FWD/REV key to enable or disable one or both keys.

- **Indication of Software release**

- **Unit Selection** of standard display suffix (select between Hz, RPM, m/min, none)

- **Select language** (English, Italian, Spanish and German)

- **Reset Frequency**: if ON and frequency control mode by VT6 is selected then the Set frequency is not automatically stored and every time inverter is OFF the frequency value is reset. If OFF, the last set frequency is always stored.

- **Transparent mode**: VT6 just used a s display

MITOS VT6 MONITOR

This is the **standard monitor display** for VT6.

If inverter is in RUN mode (motor running) the standard monitor display will show an animated arrow (↻) on the top right hand corner. The arrow will turn CW if the inverter receives a RUN FWD command and will turn CCW if the inverter receives a RUN REV command.

The scaling factor of the output frequency (Freq.) can be adjusted by changing parameter F710.

By pressing MON key the second line item can be changed between several variables:
output frequency, reference frequency, output current, input voltage, output voltage, last 4 alarms, total working time.

In **"standard monitor display"**, if the VT6 is in frequency control mode and transparent mode is not active, the inverter output frequency can be changed directly by pressing

The panel will enter frequency setting mode:

Use the arrow keys to set the desired frequency.

MITOS VT6 is a **T.I.E.M.D.** product made in EU.

MITOS
VT6

Advanced control panel
for Toshiba Inverters

- **Multilanguage capability**
- **RS485 and TTY selectable interface**
- **Customizable front layout**
- **Suitable for inverter control and monitoring**

SAFETY INFORMATIONS

Mandatory

Please read this instruction manual before starting connection and operation of MITOS-VT6

Warning

Please always give this manual to the end user of the MITOS-VT6 panel.

Danger

Every time that a command is transferred from MITOS-VT6 panel to the Inverter, it is automatically stored into Inverter memory. If the connection cable between Mitos-b and Inverter is damaged, it will be impossible to keep the Inverter control (and stop the motor too). ALWAYS use safety devices to STOP the motor in emergency conditions
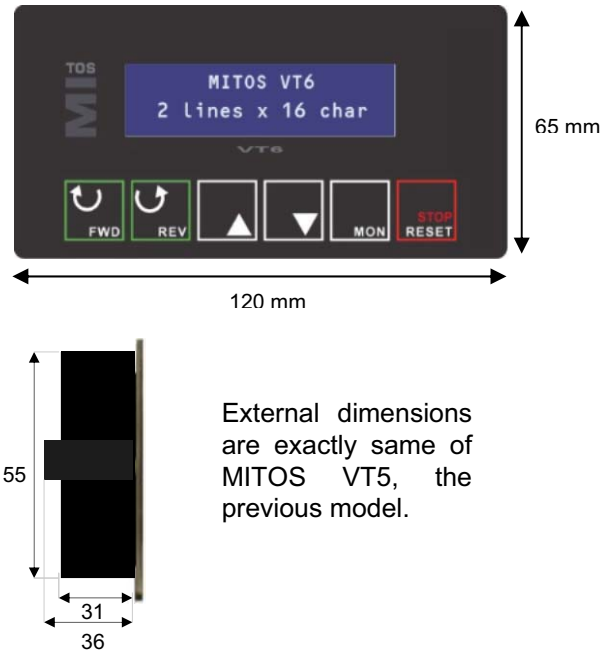
General Cautions

MITOS-VT6 keypad can't be used in any device that could create danger to the human body or from which malfunction or incorrect operation would present direct threat to human life.

MITOS-VT6 keypad has been manufactured under strict quality controls. however, if it is used in critical equipment, where an error or a malfunction would cause serious accidents to persons or to the machine, safety devices MUST be installed on the equipment.
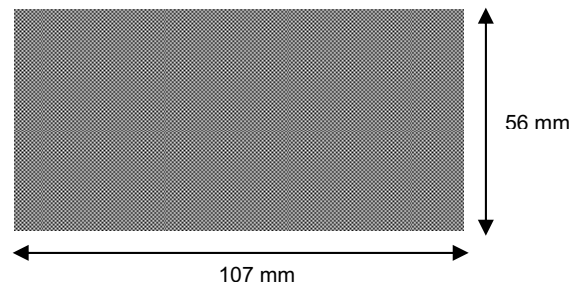
This manual could be subject to modifications without prior notice.

OUTLINE DRAWING

External dimensions are exactly same of MITOS VT5, the previous model.

PANEL CUT DIMENSIONS

Panel cut dimensions are indicative only.

CONNECTION

MITOS VT6 can be connected to following TOSHIBA Inverters:
VF-NC1, VF-S11, VF-FS1, VF-AS1 and VF-PS1.

Connection is made through standard 8 pin RJ45 pin to pin cables.

For VF-NC1 and VF-S11 connection is made to Inverter TTY port, maximum distance is limited to 15 metres.

For VF-FS1, VF-AS1, VF-PS1 the connection is made by RS485 port and longer wire distance is allowable. Connection type can be selected by switches on the back of the MITOS VT6 as shown below:

FUNCTIONS OF KEYS

Run motor in forward direction if VT6 control is selected.

Run motor in reverse direction if VT6 control is selected.

Change inverter frequency if VT6 freq. control is selected and scroll items in monitor mode

Enter Monitor function

Stop motor if VT6 control is selected. Reset inverters alarms in all mode