



Chapter 4 Keypad

4.1 Keypad description

The keypad is used to control Goodrive10 series VFDs, read the state data and adjust parameters. If you need to use the keypad in another place rather than on the VFD, use a network cable with a standard RJ45 crystal head as the extension cable.

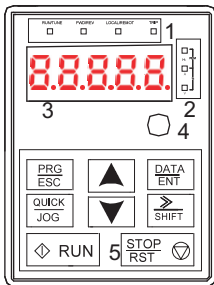
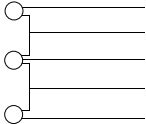


Figure 4-1 Keypad

Note: Fix the external keypad with M3 screws or the installation bracket. The installation bracket is optional.

No.	Name	Description	
1	State LED	RUN/TUNE	LED off means that the VFD is in the stopping state; LED blinking means the VFD is in the parameter autotune state; LED on means the VFD is in the running state.
		FWD/REV	FED/REV LED LED off means the VFD is in the forward rotation state; LED on means the VFD is in the reverse rotation state
		LOCAL/REMO	LED for keypad operation, terminals operation and remote communication control LED off means that the VFD is in the keypad operation state; LED blinking means the VFD is in the terminals operation state; LED on means the VFD is in the remote communication control state.
		TRIP	LED for faults LED on when the VFD is in the fault state; LED off in normal state; LED blinking means the VFD is in the overload pre-alarm state.
2	Unit LED	Mean the unit displayed currently	

No.	Name	Description					
			Hz	Frequency unit			
			A	Current unit			
			V	Voltage unit			
			RPM	Rotating speed unit			
			%	Percentage			
3	Code displaying zone	5-figure LED display displays various monitoring data and alarm code such as set frequency and output frequency.					
		Displayed word	Corresponding word	Displayed word	Corresponding word	Displayed word	Corresponding word
		0	0	1	1	2	2
		3	3	4	4	5	5
		6	6	7	7	8	8
		9	9	A	A	b	B
		C	C	d	d	E	E
		F	F	H	H	I	I
		L	L	N	N	n	n
		o	o	P	P	r	r
		S	S	t	t	U	U
		v	v	.	.	-	-
4	Digital potentiometer	Corresponds to AI1.					
5	Buttons		Programming key	Enter or escape from the first level menu and remove the parameter quickly			
			Entry key	Enter the menu step-by-step Confirm parameters			
			UP key	Increase data or function code progressively			
			DOWN key	Decrease data or function code progressively			
			Right-shift key	Move right to select the displaying parameter circularly in stopping and running mode. Select the parameter modifying digit during the parameter modification			
			Run key	This key is used to operate on the VFD in key operation mode			
			Stop/Reset key	This key is used to stop in running state and it is limited by function code P07.04 This key is used to reset all control modes in the fault alarm state			

No.	Name	Description		
			Quick key	The function of this key is confirmed by function code P07.02.

4.2 Keypad display

The keypad displaying state of Goodrive10 series VFDs is divided into stopping state parameter, running state parameter, function code parameter editing state and fault alarm state and so on.

4.2.1 Displayed state of stopping parameter

When the VFD is in the stopping state, the keypad will display stopping parameters which is shown in figure 4-2.

In the stopping state, various kinds of parameters can be displayed. Select the parameters to be displayed or not by P07.07. See the instructions of P07.07 for the detailed definition of each bit.

In the stopping state, there are 14 stopping parameters can be selected to be displayed or not. They are: set frequency, bus voltage, input terminals state, output terminals state, PID reference, PID feedback, AI1, AI2 and the current stage of multi-stage speeds, pulse counting value. P07.07 can select the parameter to be displayed or not by bit and  /SHIFT can shift the parameters form left to right,  (P07.02=2) can shift the parameters form right to left.

4.2.2 Displayed state of running parameters

After the VFD receives valid running commands, the VFD will enter into the running state and the keypad will display the running parameters. RUN/TUNE LED on the keypad is on, while the FWD/REV is determined by the current running direction which is shown as figure 4-2.

In the running state, there are 22 parameters can be selected to be displayed or not. They are: running frequency, set frequency, bus voltage, output voltage, output torque, PID reference, PID feedback, input terminals state, output terminals state, and the current stage of multi-stage speeds, pulse counting value, AI1, AI2, percentage of motor overload, percentage of VFD overload, linear speed. P07.05 and P07.06 can select the parameter to be displayed or not by bit and  /SHIFT can shift the parameters form left to right,  (P07.02=2) can shift the parameters from right to left.

4.2.3 Displayed state of fault

If the VFD detects the fault signal, it will enter into the fault pre-alarm displaying state. The keypad will display the fault code by flicking. The TRIP LED on the keypad is on, and the fault reset can be operated by the  on the keypad, control terminals or communication commands.

4.2.4 Displayed state of function codes editing

In the state of stopping, running or fault, press  to enter into the editing state (if there is a password, see P07.00).The editing state is displayed on two classes of menu, and the order is: function code group/function code number→function code parameter, press  into the displayed state of function parameter. On this state, press  to save the parameters or press  to escape.