

RG10 REMOTE CONTROLLER Engineer mode manual





CL97807-CL09100 English

1.1. Access the engineer mode

1) In power-on or standby mode, and in non-locked state, press the key combination "ON/OFF + Fan Speed" for 7s.

1.2. Enter the engineer mode to execute actions

1) When entering the engineer mode, the remote control will immediately transmit a special code for engineer mode entry.

2) After entering the engineer mode, the remote control will display icons of "Auto, Cool, Dry, Heat", and the Battery icon; at the same time, it will also display the numeric code of the current engineer mode (for the initial engineer mode, the numeric code displayed is 0), and all other icons are inactive.

3) In engineer mode, the value of the current numeric code can be adjusted circularly through the Up/Down key, with the setting range of 0 to 30. Each time the current numeric code is adjusted, the special code of the engineer mode will be transmitted with a delay of 0.6s. The code can also be transmitted by pressing "OK", and the special code of the engineer mode sent contains information of the currently displayed numeric code (if the numeric code is 0, the code to enter the engineer mode will be transmitted).

4) In engineer mode, other keys or operations are invalid except for the On/Off key, the Up/Down key, the OK key or executing the operation to exit the engineer mode.

Code	Query Content		Advanced Function Setting
0	Error code	Error code history	Press "On/Off" for 2s to enter the Error Code History query, the code displayed is "Ch", press "OK" to send the "Query error code history" code. Press "On/ Off" for 2s to exit.
1	Indoor Ambient Temperature "T1"	Power Down Memory	 Press "On/Off" for 2s to enter the Power Down Memory setting, the code displayed is "Ch", press "OK" to send the Query Power Down Memory code; press the Up/Down key to select 1 or 0 and press "OK" to confirm: 1 → power down memory exists; 0 → no power down memory. Press "OK" to confirm, and press "On/Off" for 2s to exit.
2	Indoor Pipe Temperature "T2"	Indoor Fan Control setting	Press "On/Off" for 2s to enter the Indoor Fan Control setting after the pre-set temperature is reaches, the code displayed is "Ch", press "OK" to send the Query Indoor Fan Control setting code; press the Up/Down key to select 1 to 11: $1 \rightarrow$ Stop the fan; $2 \rightarrow$ Minimum fan speed; $3 \rightarrow$ Set the fan speed; $4 \rightarrow$ Thermal running for 5min; $5 \rightarrow$ Thermal running for 10min; $6 \rightarrow$ Thermal running for 15min: $7 \rightarrow$ Thermal running for 20min; $8 \rightarrow$ Thermal running for 30min; $9 \rightarrow$ Thermal running for 50min; $10 \rightarrow$ Thermal running for 50min; $11 \rightarrow$ Thermal running for 60min; Press "OK" to confirm, and press "On/Off" for 2s to exit.

Code	Query Content	Advanced Function Setting	
3	Outdoor Pipe Temperature "T3"	Mode setting	Press "On/Off" for 2s to enter the Mode setting, press the Up/Down key to select: CH \rightarrow Cool and heat, Auto + Cool + Dry + Heat + Fan; HH \rightarrow Heat only, Heat + Fan; CC \rightarrow Cool only without Auto, Cool + Dry + Fan; nU \rightarrow Cool and Heat without Auto, Cool + Dry + Heat + Fan. Press "OK" to confirm, and the mode selected can be memorized when the remote control is powered down and powered on; and press "On/Off" for 2s to exit. When the remote control does not burn any parameters, the mode setting will not be memorized.
4	Outdoor Ambient Temperature "T4"	Min. Set Temperature setting	Press the "On/Off" for 2s to enter the Min. Set Temperature setting, press the Up/Down key to select "16°C~24°C", press "OK" to confirm, and the Min. Set Temperature can be memorized when the remote control is powered on and power lost; and press "On/Off" for 2s to exit. When the remote control does not burn any parameters, the Min. Set Temperature will not be memorized.
5	Discharge Temperature "TP"	Max. Set Temperature setting	Press "On/Off" for 2s to enter the Max. Set Temperature setting, press the Up/Down key to select "25°C~30°C", press "OK" to confirm, and the Max. Set Temperature can be memorized when the remote control is powered on and power lost; and press "On/Off" for 2s to exit. When the remote control does not burn any parameters, the Max. Set Temperature will not be memorized.
6	Compressor Target Frequency "FT"	Multi-split Cooling and Heating Preference	Press "On/Off" for 2s to enter the Multi-split Cooling and Heating Preference setting, the code displayed is "Ch", press "OK" to send the Query Multi-split Cooling and Heating Preference setting code; press the Up/Down key to select: $H \rightarrow$ Heating preferred; $C \rightarrow$ Cooling preferred; $A \rightarrow$ Master settings. Press "OK" to confirm; and press "On/Off" for 2s to exit.
7	Compressor Running Frequency "Fr"	/	/

Code	Query Content	Advanced Function Setting	
8	Current "dL"	/	/
9	Current AC Voltage Uo	/	/
10	Current indoor capacity test state Sn	/	/
11	Installation Card Info	Min. Desired Cooling Frequency setting	Press "On/Off" for 2S to enter the Min. Desired Cooling Frequency setting, the code displayed is Ch, press "OK" to send the Query Min. Desired Cooling Frequency setting code; press the Up/Down key to select the minimum cooling frequency desired. Press "OK" to confirm; press "On/Off" for 2s to exit.
12	Set Speed Pr of the outdoor fan	Min. Desired Heating Frequency setting	Press "On/Off" for 2s to enter the Min. Desired Heating Frequency setting, the code displayed is "Ch", press "OK" to send the Query Min. Desired Heating Frequency setting code; press the Up/Down key to select the min. desired heating frequency value. Press "OK" to confirm; and press the "On/ Off" for 2s to exit.
13	Opening Lr of EEV	Max. Running Frequency setting	Press "On/Off" for 2s to enter the Max. Running Frequency setting of the restricted area 6 in the cooling mode T4, the code displayed is "Ch", press "OK" to send the Query Max. Running Frequency setting code of the restricted area 6 in the cooling mode T4; press the Up/Down key to select the limit. Press "OK" to confirm; and press "On/Off" for 2s to exit.
14	Actual Running Speed ir of the indoor fan	/	/
15	Indoor Humidity Hu	Outdoor Forced Running Frequency setting	Press "On/Off" for 2s to enter the Outdoor Forced Running Frequency setting, the code displayed is "Ch", press "OK" to send the Query Outdoor Forced Running Frequency setting code; press the Up/Down key to select the outdoor forced running frequency. Press "OK" to confirm; and press "On/Off" for 2s to exit.

Code	Query Content		Advanced Function Setting
			Press "On/Off" for 2s to enter One-Key Recovery, the code
16	Set		displayed is "rS", then press "OK" to send the One-Key Recovery
	Temperature	One-Key	code, the mode setting of the remote control will recover to "Cooling
	TT after	Recovery	and heating", the min. temperature recovers to 16°C, and the max.
	compensation		temperature recovers to 30°C.
			Press "On/ Off" for 2s to exit.
17	Indoor Dust		,
	Concentration	/	/
	dT		
18	WIFI Signal	/	
	Intensity	/	7
		Cooling	Press "On/Off" for 2s to enter the Cooling Frequency Threshold
19	Outdoor DC	Frequency	Settings; press the Up/Down key to select the cooling frequency
15	Bus Voltage	Threshold	threshold.
		Settings	Press "OK" to confirm; and press the "On/Off" for 2s to exit.
		Heating	Press "ON/OFF" for 2s to enter the Heating Frequency Threshold
20	Indoor Target	Frequency	Settings; press the Up/Down key to select the heating frequency
20	Frequency oT	Threshold	threshold.
		Settings	Press "OK" to confirm; and press "On/Off" for 2s to exit
			Press "On/Off" for 2s to enter the Cooling Temperature Compensation
	/	Cooling	Value Settings, the code displayed is "Ch", then press "OK" to send the
21		Temperature	Query Cooling Temperature Compensation Value code; press the
	,	Compensation	Up/Down key to select the cooling temperature compensation value
		Value Settings	then.
			Press "OK"; and press "On/Off" for 2s to exit.
	/	Heating Temperature Compensation Value Settings	Press "On/Off" for 2s to enter the Heating Temperature Compensation
			Value Settings, the code displayed is "Ch", press "OK" to send the
22			Query Heating Temperature Compensation Value code; press the
			Up/Down key to select the heating temperature compensation value.
			Press "OK"; and press "On/ Off" for 2s to exit.
			Press "On/Off" for 2s to enter the Max. Cooling Air Speed setting, the
23	/	Max. Cooling Air Speed setting	code displayed is "Ch", press "OK" to send the Query Max. Cooling Air
			Speed code; press the Up/Down key to select the max. cooling air
			speed.
			Press "OK"; and press "On/Off" for 2s to exit.
24	/	Min. Cooling Air Speed setting	Press "On/Off" for 2S to enter the Min. Cooling Air Speed setting, the
			code displayed is "Ch", press "OK" to send the Query Min. Cooling Air
			Speed code; press the Up/Down key to select the minimum cooling
			air speed.
			Press "OK" to confirm; press "On/Off" for 2s to exit.

Code	Query Content	Advanced Function Setting	
25	/	Max. Heating Air Speed setting	Press "On/Off" for 2s to enter the Max. Heating Air Speed setting, the
			code displayed is "Ch", press "OK" to send the Query Max. Heating Air
			Speed code; press the Up/Down key to select the maximum heating air
			speed.
			Press "OK" to confirm; press "On/Off" for 2s to exit.
26	/	Min. Heating Air Speed setting	Press "On/Off" for 2s to enter the Min. Heating Air Speed setting, the
			code displayed is "Ch", press "OK" to send the Query Min. Heating Air
			Speed code; press the Up/Down key to select the minimum heating air
			speed.
			Press "OK" to confirm; press "On/Off" for 2s to exit.
27	Reserved	/	
28			1
29			/
30			

Note:

1. After entering the frequency limitation settings of channels 11~13, 15, 19, and 20 in engineer mode, if "--" is displayed in the numeric area of the remote control, it indicates that the frequency limitation is cancelled. If Channel 11/12 is selected, the maximum frequency limit is 50 and the minimum is 10, and the conversion rule is "...49, 50, --, Ch, 10, 11...49, 50...". If Channel 13 is selected, the maximum frequency limit is 150 and the minimum is 20, and the conversion rule is "...149, 150, --, Ch, 20, 21...149, 150...". If Channel 15 is selected, the maximum frequency limit is 250 and the minimum is 10, and the conversion rule is "...249, 250, --, Ch, 10, 11...249, 250...". If Channel 19/20 is selected, the frequency values for cooling and heating are recovered to 75 by default; the maximum frequency value is 84 and the minimum is 40, and the conversion rule is "...83, 84, --, 40, 41 ...83, 84...". The limit frequency value can be increased in a cyclic manner by pressing the Up key, and it can also be decreased in a cyclic manner by pressing the Down key. Each time you press "OK", the special code for the limit frequency will be transmitted immediately by the remote control, and the transmitted special code for the limit frequency contains the current limit frequency information.

2. In engineer mode, press the Child Lock key at the same time for 5s to transmit the remote control code for locking the indoor unit.

1.3. Return to the previous engineer mode in Channels 1~30 settings of the engineer mode

1) In Channel 1~30 settings of the engineer mode, long press the On/Off key to return the previous engineer mode.

1.4. Exit of engineer mode

- 1) In engineer mode, press the key combination of "On/Off + Fan speed" for 2s;
- 2) The engineer mode will be exited if there are no valid key operations for continuous 60s.

2.1. Error code of engineer mode

Display	Error Information		
EH 00/EH OR	Indoor unit EEPROM parameter error		
EL 01	Indoor / outdoor unit communication error		
eh pu	Communication error between indoor unit and indoor external fan module		
EH 30	Parameters error of indoor external fan		
EX 35	Phase failure of indoor external fan		
EX 36	Indoor external fan current sampling bias fault		
EH 31	Indoor external fan zero speed failure		
EX 38	Indoor external fan stall failure		
EX 39	Out of step failure of indoor external fan		
ex 38	Low voltage protection of indoor external fan DC bus		
6K 3 6	Indoor external fan DC bus voltage is too high fault		
EH 3E	Indoor external fan overcurrent fault		
ex 3f	Indoor external fan module protection/hardware overcurrent protection		
EH 03	The indoor fan speed is operating outside of the normal range		
EC SI	Outdoor unit EEPROM parameter error		
EC 52	Condenser coil temperature sensor T3 is in open circuit or has short circuited		
EC 53	Outdoor room temperature sensor T4 is in open circuit or has short circuited		
EC 54	Compressor discharge temperature sensor TP is in open circuit or has short circuited		
EC 55	IGBT temperature sensor TH is in open circuit or has short circuited		
EC 0 6	Outdoor unit malfunction		
EH 60	Indoor room temperature sensor T1 is in open circuit or has short circuited		
EH 61	Evaporator coil temperature sensor T2 is in open circuit or has short circuited		
EC 11	Outdoor external fan overcurrent fault		
EC 75	Outdoor external fan module protection/hardware overcurrent protection		
EC 13	Outdoor external fan phase failure		
EC 14	Outdoor external fan current sampling bias fault		
EC 13	Zero speed failure of outdoor unit DC fan		
EC 01	The outdoor fan speed is operating outside of the normal range(
EL 0C	Refrigerant leak detected		
EH OE	Water-level alarm malfunction		
PC 00	IPM malfunction or IGBT over-strong current protection		
PC 10	Over low voltage protection		
PC II	Over voltage protection		
PC 12	DC voltage protection		
PC 02	Top temperature protection of compressor or High temperature protection of IPM module		

PC 40	Communication error between outdoor main chip and compressor driven chip		
PC 41	Current Input detection protection		
PC 42	Compressor start error		
PC 43	Lack of phase (3 phase) protection		
PC 44	No speed protection		
PC 4S	341PWM error		
PC 46	Compressor speed malfunction		
PC 49	Compressor over current protection		
PC 06	Compressor discharge temperature protection		
PC 08	Outdoor current protection		
PH 09	Anti-cold air in heating mode		
PC OF	PFC module malfunction		
PC 30	System overpressure protection		
PC 31	System pressure is too low protection		
PC 03	Pressure protection		
PC OL	Outdoor low ambient temperature protection		
PH 90	Evaporator coil temperature over high protection		
PH 91	Evaporator coil temperature over low Protection		
PC OR	Condenser high temperature protection		
РН ОС	Indoor unit humidity sensor failure		
LH 00	Frequency limit caused by T2		
LH 30	Indoor external fan current limit		
LH 31	Indoor external fan voltage limit		
LC 01	Frequency limit caused by T3		
PC 05	Frequency limit caused by TP		
LC 05	Frequency limit caused by voltage		
LC 03	Frequency limit caused by current		
LC 06	Frequency limit caused by PFC		
LC 30	Frequency limit caused by high pressure		
LC 31	Frequency limit caused by low pressure		
гони	Frequency limit caused by remote controller		
	Indoor units mode conflict(match with multi outdoor unit)		

