

MTR-HS

Handset Programmer

User manual



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1 Introduction

MTR-HS designs to change the parameter setting of GTR50 / GTR52 / GTR56 / GTR60 / GTR70 / GTR80 / GTR82 / GTR85.


2 Panel description

- 2.1 Power indication light
- 2.2 Information transmit (Tx) & receive (Rx) indication light
- 2.3 4 lines of English words display
- 2.4 Reset button
- 2.5 6 operate keypad (C, ▲, ▼, ◀, ▶, OK)



3 Outlet definition

Adopt RJ-45 6P4C wire to connect computer. Following is the definition figure :

	1. BAT-
	2. B
	3. A
	4. BAT+

4 Operation keypad definition

- 4.1 C : Return to previous page or cancel the operation.
- 4.2 ▲、▼ : Up and down movement and parameter setting value adjust.
- 4.3 ◀、▶ : Left and Right movement.
- 4.4 OK : Input and setting parameter value

5 System orders

5.1 【Parameters display】

When choose this option will show you the regarding parameters. User can set or adjust the parameters according to user's need.

5.2 【Parameter loading】

After parameter setting is done, you can download the parameters to the controller and execute it.

5.3 【Read all parameters】

Read all parameters that was stored inside the controller.

5.4 【Setting all parameters】

Reset all adjusted parameters into controller.

5.5 【Memory】

MTR-HS can record 20 data of parameter setting values. Users can lineup the data

of "Parameters display" and storage them .

5.6 【Open the memory】

Open the stored setting value, Users can enter into the screen of "Parameters display" and process the regarding setting value.

5.7 【Show the series number】

Before execute the function of "Open the memory" will show the controller's series number. If the function of "Open the memory" has been executed will show the series number that had been stored

5.8 【Error records】

User can read and show the controller's error records on the screen of MTR-HS.

5.9 【Memory erase】

Erase the setting value that stored in memory.

5.10 【Edition of MTR-HS】

Will show which edition is. This edition is V1.0.

6 Operation procedure

- 6.1 Connect MTR-HS with controller according the following instruction.
- 6.2 Power indication light will light
- 6.3 Choose the right model of GTR controller and press "OK" to enter into the screen of connect setting.
- 6.4 Then put the right code into MTR-HS and press "OK" will read all parameters of the controller.
- 6.5 MTR-HS will enter command list

automatically.

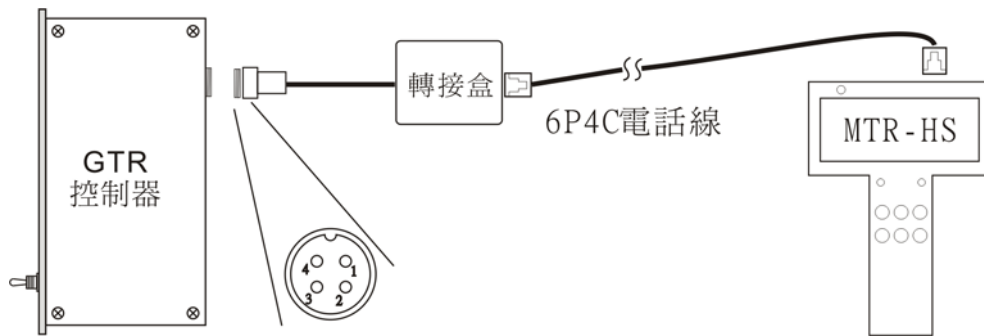
6.6 Select item "Parameters display" and then press "OK" will show the parameters the same with corresponding controller.

6.7 Find and adjust which parameter setting in your need then press "OK" after the job

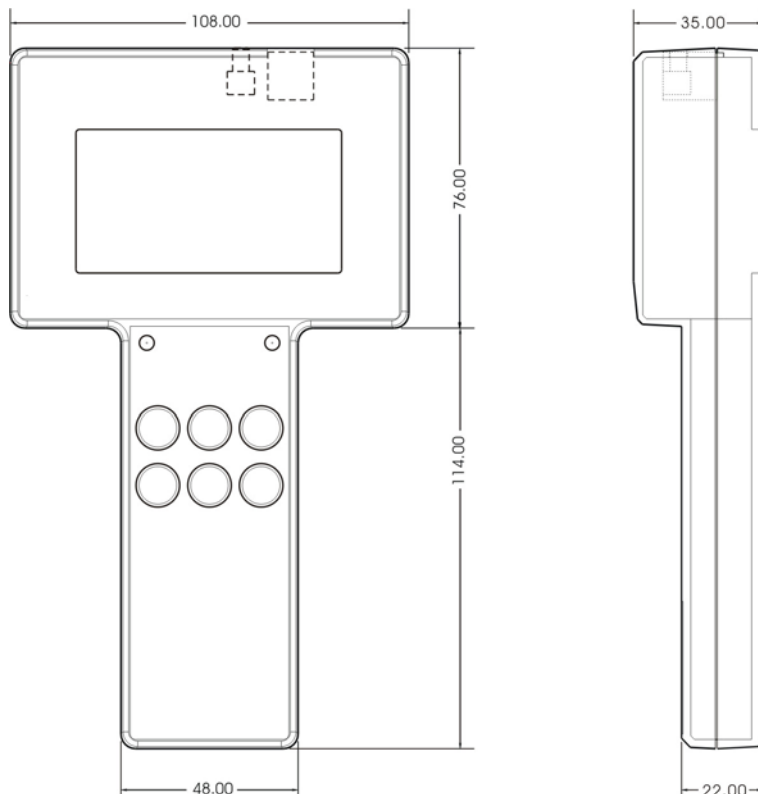
done.

6.8 After parameter setting is OK, return to the command list and select "parameter loading". And then the controller parameter will be renewed as your setting.

7 Wiring Example



8 Dimensions





MTR-HS Handset Programmer

9 Parameters List

GTR50 Parameters	GTR50 Items
1. CRANK_LIST	Start Freq. Detect Start O.P. Detect Crank Time Crank Counts Trip Upper Limit Crank Lower Limit O.P. Setup Delay Idle Time
2. ENGINE_LIST	Preset Fuel Time Preheat Time Energize Stop Time ErrorProhibitStop FaultyOverStopEspy FaultyOverStopStay
3. ACCHOUR_LIST	Hour Meter: Second Hour Meter: Minute Hour Meter: Hour Hour Meter: 100 Hr
4. SENSSW_LIST	H.W.T.SwitchDetect H.W.T. Switch Type H.W.T.SwitchDelay L.O.P.SwitchDetect L.O.P. Switch Type L.O.P.SwitchDelay
5. AUXINPUT_LIST	Aux. Input0 Detect Aux. Input0 Name Aux. Input0 Func. Aux. Input0 Type Aux. Input0 Delay Aux. Input1 Detect Aux. Input1 Name Aux. Input1 Func. Aux. Input1 Type Aux. Input1 Delay Aux. Input2 Detect Aux. Input2 Name Aux. Input2 Func. Aux. Input2 Type Aux. Input2 Delay Aux. Input3 Detect Aux. Input3 Name Aux. Input3 Func. Aux. Input3 Type Aux. Input3 Delay
6. AUXOUTPUT_LIST	Aux. Output2 Func. Aux. Output3 Func. Trip Output Func.
7. OPRSW_LIST	A.T.S Input Detect A.T.S Input Delay ClearSwitch Detect ClearSwitch Delay
8. FREQ_LIST	System Frequency High Freq. Detect High Freq. Setting High Freq. Delay Low Freq. Detect Low Freq. Function Low Freq. Setting Low Freq. Delay Min. Freq. Detect Min. Freq. Setting
9. MISC_LIST	Safty On Delay De-bounce Counts Controller Address

GTR52 / GTR56 Parameters	GTR52 / GTR56 Items
1. CRANK_LIST	Start Freq. Detect Start O.P. Detect Crank Time Crank Counts Trip Upper Limit Crank Lower Limit O.P. Setup Delay Idle Time
2. ENGINE_LIST	Preset Fuel Time Preheat Time Energize Stop Time ErrorProhibitStop FaultyOverStopEspy FaultyOverStopStay
3. ACCHOUR_LIST	Hour Meter: Second Hour Meter: Minute Hour Meter: Hour Hour Meter: 100 Hr
4. SENSSW_LIST	H.W.T.SwitchDetect H.W.T. Switch Type H.W.T.SwitchDelay L.O.P.SwitchDetect L.O.P. Switch Type L.O.P.SwitchDelay
5. AUXINPUT_LIST	Aux. Input0 Detect Aux. Input0 Name Aux. Input0 Func. Aux. Input0 Type Aux. Input0 Delay Aux. Input1 Detect Aux. Input1 Name Aux. Input1 Func. Aux. Input1 Type Aux. Input1 Delay Aux. Input3 Detect Aux. Input3 Name Aux. Input3 Func. Aux. Input3 Type Aux. Input3 Delay
6. AUXOUTPUT_LIST	Aux. Output1 Func. Aux. Output2 Func. Aux. Output3 Func.
7. OPRSW_LIST	A.T.S Input Detect A.T.S Input Delay ManualSwitchDetect ManualSwitch Delay ClearSwitch Detect ClearSwitch Delay
8. FREQ_LIST	System Frequency High Freq. Detect High Freq. Setting High Freq. Delay Low Freq. Detect Low Freq. Function Low Freq. Setting Low Freq. Delay Min. Freq. Detect Min. Freq. Setting
9. BATTERY_LIST	BatteryFault Alarm
10. MISC_LIST	Safty On Delay De-bounce Counts Controller Address



MTR-HS Handset Programmer

GTR60 Parameters	GTR60 Items
1. CRANK_LIST	Start Freq. Detect Start O.P. Detect Crank Time Crank Counts Trip Upper Limit Crank Lower Limit O.P. Setup Delay Idle Time
2. ENGINE_LIST	Preset Fuel Time Preheat Time Energize Stop Time ErrorProhibitStop FaultyOverStopEspy FaultyOverStopStay Cooling Time
3. ACCHOUR_LIST	Hour Meter: Second Hour Meter: Minute Hour Meter: Hour Hour Meter: 100 Hr
4. SENSSW_LIST	H.W.T.SwitchDetect H.W.T. Switch Type H.W.T.SwitchDelay L.O.P.SwitchDetect L.O.P. Switch Type L.O.P.SwitchDelay
5. AUXINPUT_LIST	Aux. Input0 Detect Aux. Input0 Name Aux. Input0 Func. Aux. Input0 Type Aux. Input0 Delay Aux. Input1 Detect Aux. Input1 Name Aux. Input1 Func. Aux. Input1 Type Aux. Input1 Delay Aux. Input2 Detect Aux. Input2 Name Aux. Input2 Func. Aux. Input2 Type Aux. Input2 Delay Aux. Input3 Detect Aux. Input3 Name Aux. Input3 Func. Aux. Input3 Type Aux. Input3 Delay
6. AUXOUTPUT_LIST	Aux. Output0 Func. Aux. Output1 Func. Aux. Output2 Func. Aux. Output3 Func. Trip Output Func.
7. OPRSW_LIST	A.T.S Input Detect A.T.S Input Delay ManualSwitchDetect ManualSwitch Delay ClearSwitch Detect ClearSwitch Delay
8. FREQ_LIST	System Frequency High Freq. Detect High Freq. Setting High Freq. Delay Low Freq. Detect Low Freq. Function Low Freq. Setting Low Freq. Delay Min. Freq. Detect Min. Freq. Setting
9. BATTERY_LIST	Bat. Volt. Select LowBat. VoltSetting

GTR60 Parameters	GTR60 Items
10. ACV_LIST	AC Voltage Select HighVoltage Detect HighVoltage Func. HighVoltageSetting High Voltage Delay Low Voltage Detect Low Voltage Func. LowVoltage Setting Low Voltage Delay Min.Voltage Detect Min.VoltageSetting AC Voltage Escape VoltEscape Setting
11. ACA_LIST	C.T. Ratio Over Load Detect Over Load Function Over Load Setting Over Load Delay ShortCircuitDetect ShortCircuitFunc. ShortCircuitSett ShortCircuit Delay
12. RPM Multiplier	RPM Multiplier RPM Divisor RPM Escape RPM Escape Setting
13. MISC_LIST	Safty On Delay De-bounce Counts Controller Address



MTR-HS Handset Programmer

GTR70 Parameters	GTR70 Items
1. CRANK_LIST	Start Freq. Detect Start O.P. Detect Crank Time Crank Counts Trip Upper Limit Crank Lower Limit O.P. Setup Delay Idle Time
2. ENGINE_LIST	Preset Fuel Time Preheat Time Energize Stop Time ErrorProhibitStop FaultyOverStopEspy FaultyOverStopStay Cooling Time
3. ACCHOUR_LIST	Hour Meter: Second Hour Meter: Minute Hour Meter: Hour Hour Meter: 100 Hr
4. SENSSW_LIST	H.W.T.SwitchDetect H.W.T. Switch Type H.W.T.SwitchDelay L.O.P.SwitchDetect L.O.P. Switch Type L.O.P.SwitchDelay
5. AUXINPUT_LIST	Aux. Input0 Detect Aux. Input0 Name Aux. Input0 Func. Aux. Input0 Type Aux. Input0 Delay Aux. Input1 Detect Aux. Input1 Name Aux. Input1 Func. Aux. Input1 Type Aux. Input1 Delay Aux. Input2 Detect Aux. Input2 Name Aux. Input2 Func. Aux. Input2 Type Aux. Input2 Delay Aux. Input3 Detect Aux. Input3 Name Aux. Input3 Func. Aux. Input3 Type Aux. Input3 Delay
6. AUXOUTPUT_LIST	Aux. Output0 Func. Aux. Output1 Func. Aux. Output2 Func. Aux. Output3 Func. Aux. Output4 Func. Aux. Output5 Func. Aux. Output6 Func. Aux. Output7 Func. Aux. Output8 Func. Aux. Output9 Func. Aux. Output10 Func. Aux. Output11 Func. Trip Output Func
7. OPRSW_LIST	A.T.S Input Detect A.T.S Input Delay ManualSwitchDetect ManualSwitch Delay ClearSwitch Detect ClearSwitch Delay

GTR70 Parameters	GTR70 Items
8. FREQ_LIST	System Frequency High Freq. Detect High Freq. Setting High Freq. Delay Low Freq. Detect Low Freq. Function Low Freq. Setting Low Freq. Delay Min. Freq. Detect Min. Freq. Setting
9. BATTERY_LIST	Bat. Volt. Select BatteryFault Alarm LowBat.VoltSetting Week Power Detect Week Power Setting
10. ACV_LIST	AC Voltage Select HighVoltage Detect HighVoltage Func. HighVoltageSetting High Voltage Delay Low Voltage Detect Low Voltage Func. LowVoltage Setting Low Voltage Delay Min.Voltage Detect Min.VoltageSetting AC Voltage Escape VoltEscape Setting
11. ACA_LIST	C.T. Ratio Over Load Detect Over Load Function Over Load Setting Over Load Delay ShortCircuitDetect ShortCircuit Func. ShortCircuitSett ShortCircuit Delay
12. RPM Multiplier	RPM Multiplier RPM Divisor RPM Escape RPM Escape Setting
13. SENSOR_LIST	L.F.L. Alarm L.F.L. Setting L.O.P. Alarm L.O.P. Setting H.W.T. Alarm H.W.T. Setting O.P. Escape O.P.Escape Setting O.P. Sensor Brand W.T. Sensor Brand Boot Test Sensor
14. MISC_LIST	Safty On Delay De-bounce Counts Controller Address



MTR-HS Handset Programmer

GTR80 / GTR82 Parameters	GTR80 / GTR82 Items
1. CRANK_LIST	Start Freq. Detect Start O.P. Detect Crank Time Crank Counts Trip Upper Limit Crank Lower Limit O.P. Setup Delay Idle Time
2. ENGINE_LIST	Preset Fuel Time Preheat Time Energize Stop Time ErrorProhibitStop FaultyOverStopEspy FaultyOverStopStay Cooling Time Low R.P.M. Engine ManualStop at once
3. ACCHOUR_LIST	Hour Meter: Second Hour Meter: Minute Hour Meter: Hour Hour Meter: 100 Hr
4. SENSSW_LIST	H.W.T.SwitchDetect H.W.T. Switch Type H.W.T.SwitchDelay L.O.P.SwitchDetect L.O.P. Switch Type L.O.P.SwitchDelay
5. AUXINPUT_LIST	Aux. Input0 Detect Aux. Input0 Name Aux. Input0 Func. Aux. Input0 Type Aux. Input0 Delay Aux. Input1 Detect Aux. Input1 Name Aux. Input1 Func. Aux. Input1 Type Aux. Input1 Delay Aux. Input2 Detect Aux. Input2 Name Aux. Input2 Func. Aux. Input2 Type Aux. Input2 Delay Aux. Input3 Detect Aux. Input3 Name Aux. Input3 Func. Aux. Input3 Type Aux. Input3 Delay
6. AUXOUTPUT_LIST	Aux. Output0 Func. Aux. Output1 Func. Aux. Output2 Func. Aux. Output3 Func. Trip Output Func
7. OPRSW_LIST	A.T.S Input Detect A.T.S Input Delay ManualSwitchDetect ManualSwitch Delay ClearSwitch Detect ClearSwitch Delay Non-Auto Detect
8. FREQ_LIST	System Frequency High Freq. Detect High Freq. Setting High Freq. Delay Low Freq. Detect Low Freq. Function Low Freq. Setting Low Freq. Delay Min. Freq. Detect Min. Freq. Setting

GTR80 / GTR82 Parameters	GTR80 / GTR82 Items
9. BATTERY_LIST	Bat. Volt. Select BatteryFault Alarm LowBat.VoltSetting HighBatVoltSetting Week Power Detect Week Power Setting ChargeFaultSetting
10. ACV_LIST	AC Voltage Select HighVoltage Detect HighVlotage Func. HighVoltageSetting High Voltage Delay Low Voltage Detect Low Voltage Func. LowVoltage Setting Low Voltage Delay Min.Voltage Detect Min.VoltageSetting AC Voltage Escape VoltEscape Setting
11. ACA_LIST	C.T. Ratio Over Load Detect Over Load Function Over Load Setting Over Load Delay ShortCircuitDetect ShortCircuit Func. ShortCircuitSett ShortCircuit Delay
12. RPM Multiplier	RPM Multiplier RPM Divisor RPM Escape RPM Escape Setting Tacho.SignalSource Over Speed Detect Over Speed Setting Over Speed Delay
13. SENSOR_LIST	L.F.L. Alarm L.F.L. Setting L.O.P. Alarm L.O.P. Setting H.W.T. Alarm H.W.T. Setting O.P. Escape O.P.Escape Setting O.P. Sensor Brand W.T. Sensor Brand Boot Test Sensor Temp. Unit Setting Pres. Unit Setting F.L. Sensor Select F.L.MeasureDisplay
14. MISC_LIST	Safty On Delay De-bounce Counts Controller Address



MTR-HS Handset Programmer

GTR85 Parameters	GTR85 Items
1. CRANK_LIST	Start Freq. Detect Start O.P. Detect Crank Time Crank Counts Trip Upper Limit Crank Lower Limit O.P. Setup Delay Idle Time
2. ENGINE_LIST	Preset Fuel Time Preheat Time Energize Stop Time ErrorProhibitStop FaultyOverStopEspy FaultyOverStopStay Cooling Time Low R.P.M. Engine ManualStop at once
3. ACCHOUR_LIST	Hour Meter: Second Hour Meter: Minute Hour Meter: Hour Hour Meter: 100 Hr
4. SENSSW_LIST	H.W.T.SwitchDetect H.W.T. Switch Type H.W.T.SwitchDelay L.O.P.SwitchDetect L.O.P. Switch Type L.O.P.SwitchDelay
5. AUXINPUT_LIST	Aux. Input0 Detect Aux. Input0 Name Aux. Input0 Func. Aux. Input0 Type Aux. Input0 Delay Aux. Input1 Detect Aux. Input1 Name Aux. Input1 Func. Aux. Input1 Type Aux. Input1 Delay Aux. Input2 Detect Aux. Input2 Name Aux. Input2 Func. Aux. Input2 Type Aux. Input2 Delay Aux. Input3 Detect Aux. Input3 Name Aux. Input3 Func. Aux. Input3 Type Aux. Input3 Delay
6. AUXOUTPUT_LIST	Aux. Output2 Func. Aux. Output3 Func. Trip Output Func
7. OPRSW_LIST	A.T.S Input Detect A.T.S Input Delay ManualSwitchDetect ManualSwitch Delay ClearSwitch Detect ClearSwitch Delay Non-Auto Detect
8. FREQ_LIST	System Frequency High Freq. Detect High Freq. Setting High Freq. Delay Low Freq. Detect Low Freq. Function Low Freq. Setting Low Freq. Delay Min. Freq. Detect Min. Freq. Setting

GTR85 Parameters	GTR85 Items
9. BATTERY_LIST	Bat. Volt. Select BatteryFault Alarm LowBat.VoltSetting HighBatVoltSetting Week Power Detect Week Power Setting ChargeFaultSetting
10. ACV_LIST	AC Voltage Select HighVoltage Detect HighVlotage Func. HighVoltageSetting High Voltage Delay Low Voltage Detect Low Voltage Func. LowVoltage Setting Low Voltage Delay Min.Voltage Detect Min.VoltageSetting AC Voltage Escape VoltEscape Setting
11. ACA_LIST	C.T. Ratio Over Load Detect Over Load Function Over Load Setting Over Load Delay ShortCircuitDetect ShortCircuit Func. ShortCircuitSett ShortCircuit Delay
12. RPM Multiplier	RPM Multiplier RPM Divisor RPM Escape RPM Escape Setting Tacho.SignalSource Over Speed Detect Over Speed Setting Over Speed Delay
13. SENSOR_LIST	L.F.L. Alarm L.F.L. Setting L.O.P. Alarm L.O.P. Setting H.W.T. Alarm H.W.T. Setting O.P. Escape O.P.Escape Setting O.P. Sensor Brand W.T. Sensor Brand Boot Test Sensor Temp. Unit Setting Pres. Unit Setting F.L. Sensor Select F.L.MeasureDisplay
14. ATS_LIST	ATS Phase Select TDES Setting TDNE Setting TDEN Setting TDOFF Setting TDMP Setting
15. MISC_LIST	Safty On Delay De-bounce Counts Controller Address