

GTR-18

Generator Controller

Manual



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Controller Description

GTR-18 is a multi-function diesel engine generator controller. It applies external manual switch to start the generator. No special training is required due to the easy operation. Fault protection includes: Emergency stop, Over speed, High water temperature, Low oil pressure. GTR-18 also displays the low battery voltage warning, and indicates the running status and power status. GTR-18 equips with high firm continental-type terminal that provides easy plug in and removal. Furthermore, GTR-18 has 10 pins Dip switch for adjusting parameter according to system requirements, and make it not only reducing stock but also meeting the various system specifications. GTR-18 build-in 5 output powers relays which perform high power capacity reach to 5 Amp (DC) that saves the wiring for connection with extra power relays. No matter in function, protection or operation performance. GTR-18 is your best choice.

2. Profile

A、LED Indication

- Emergency / Auxiliary Shutdown
- Low Battery Warning
- Over Speed Shutdown
- High Water Temperature Shutdown
- Low Oil Pressure Shutdown
- Run
- Power



Fig.1 18 Front Panel

3. Back Panel Function Description

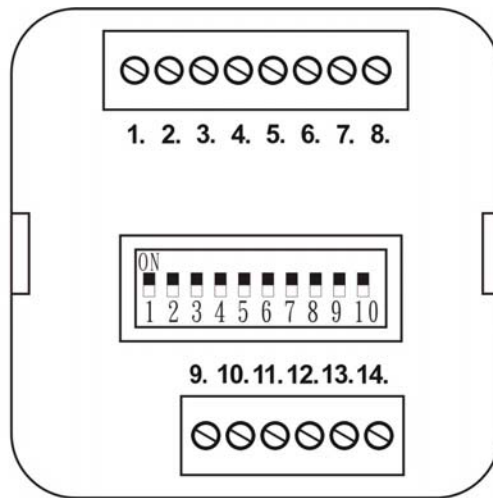


Fig. 2 GTR-18 Controller Back Panel

European Style Connector	Number	Description	Code
	1	Input power (Battery +)	++
	2	Ground (Battery -)	GND
	3	No use	N.C.
	4	Output fuel valve relay	Valve
	5	Output alarm relay	Alarm
	6	Output stop relay	Stop
	7	Idle/Pre-heat relay	PreHeat
	8	Charge fire point	Charge
	9	Aux. switch shutdown	Em.Stop
	10	Input , High water temp.	H.W.T.
	11	Input, Low oil press.	L.O.P.
	12	Input , start	RUN
	13	Input , Frequency detect terminal	F.D1
14	Input , Frequency detect terminal	F.D2	

List 1 GTR-18 Terminal

A 、 Dip switch settings function

- Pin 1 & Pin 2 : Valve on to stop engine timer

Pin1	Pin2	Valve on stop engine delay
OFF	OFF	5 sec
ON	OFF	10 sec
OFF	ON	15 sec
ON	ON	20 sec

List 2 Stop Period

- Pin3 : System frequency 【ON : 50Hz ; OFF : 60Hz】
- Pin4 : Escape motor by oil pressure switch 【ON : Enable ; OFF : Disable】
- Pin5 : Pressure switch type 【ON : Normal Open ; OFF : Normal Close】
- Pin6 : Idle / Pre-heat output delay time 【ON : 10 (120) Sec ; OFF : 1 (10) Sec】
- Pin7 : Low DC Volt 【ON : 10.5VDC ; OFF : 21VDC】
- Pin8 : Spare
- Pin9 : Spare
- Pin10 : Idle / Pre-heat Function Select 【ON : Idle ; OFF : Pre-heat】

4. Case Dimension

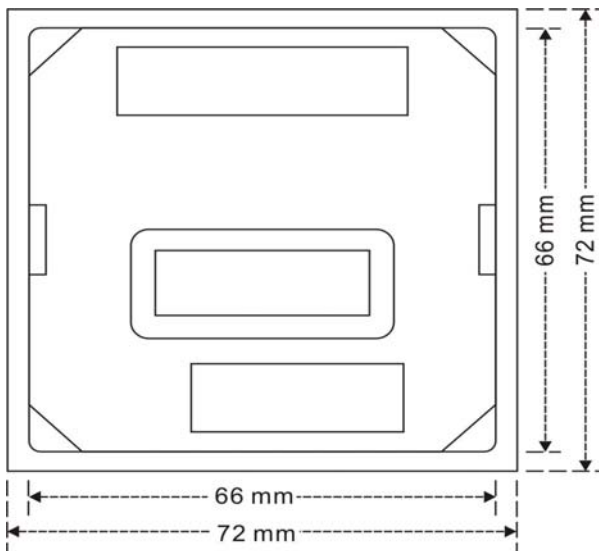


Fig. 3 GTR-18 Case Dimension of Back View

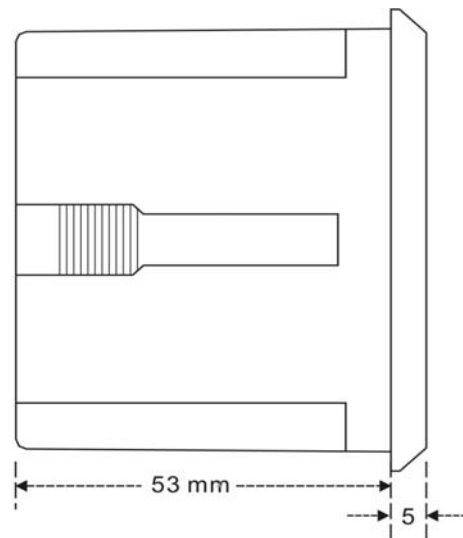


Fig. 3 GTR-18 Case Dimension of Back View

5. Specifications

DC supply :

8~36 VDC

Power Consumption :

Max.5 W

Measuring Frequency :

0~75 Hz (min AC Volt. 5V ; max AC Volt. 300V)

Relay Output :

Start output : 5A

Valve output : 5A

Idle / Pre-heat output : 5A

Alarm Output : 5A

Stop output : 5A

Ambient Temperature Range :

-30 °C ~ 70 °C

Dimension (W * H * D) :

72mm × 72 mm × 58 mm

Panel cut-out (W * H) :

68 mm × 68 mm

Weight :

190 g (0.42 lb.)

6. Protections and parameters :

Auxiliary shutdown protection: 1 Sec., Normal Close

Low battery warning: 5 Sec., 10.5 / 21 VDC

Over speed protection: 2 Sec., 55/66 Hz

High water temp. protection: 2 Sec., Normal Open

Low oil pressure protection: 2 Sec., Normal Open / Normal Close

Safety on timer: 5 Sec (*)

(*) All alarms are ignored until safety on timer expired, except the emergency stop and over speed.

7. Remark (UL File E319081)

- “Maximum Surrounding Air Temperature 60°C”
- “For Use on a Flat Surface of a Type 1 Enclosure” or equivalent statement.
- Instructions for installation in a Pollution Degree 2 environment.
- Unless the proper wiring connections are plainly evident, wiring terminals shall be marked, or the device shall be provided with suitable wiring diagram to indicate the connections.

8. Controller Wiring Example

