



MonTICK – Quickstart



User Manual: Version 3.26

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Contact: michael@gentick.co.za

This manual describes the commands and connections of the Generator Monitoring MonTICK unit. This unit is typically used in a standby diesel generator. You can enable what type of alarms you would like to be notified for. Once a fault is detected, the message will be repeated every x minutes (configurable), or until the unit is MUTED.

Fuel level, Common Alarm, Battery charge voltage, Running Hours and Generator RUN is monitored. One output is connected to the start input of the Generator controller enabling the user to start and stop the generator when the Utility power is on.



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1 QUICK START

This section will detail all the basic information needed to use an installed MontTICK unit.

You communicate with a MontTICK unit by sending it SMS messages.

Once a week an automated STATUS message will be sent to the configured numbers. Messages will be sent at 07:00 on Monday morning. If the MontTICK sends a message at another time it indicates that its time is not set. You can set the MontTICK's time by sending it a message. Eg, montick: 24

The Signal value in messages indicates the Cellular Signal strength, it is a value between 1 and 32, 1 is very bad signal and 32 the best. Under normal conditions the signal value should be between 12 and about 20 for good operation.

MontTICK will send a message to a recipient, and wait for a delivery report, if it is not received within a few seconds; MontTICK will send a second message, and then move on to the next configured telephone number.

If you receive double SMS messages for the same alert, then either the MontTICK unit's signal/connection to the cellular system was bad, or your phones connection was bad, or the SMS system was slow for some reason; meaning that the delivery report did not reach MontTICK within the allocated few seconds.

It is important that messages be delivered, and missing a message is worse than receiving doubles, please ignore double messages if and when they occur.

1.1 Request Status (montick: 04)

montick: 04

MontTICK will reply its current status to the configured telephone numbers

1.2 Request Status (montick: 24)

montick: 24

MontTICK will reply its current status to the telephone number that sent the message.

1.3 Start Generator (montick: 05)

montick: 05

MontTICK will send back a reply SMS to the telephone that sent it the message and say:

“OutPut1 ON-Starting”

MontTICK will energise the Output 1 Relay, this relays normally open contact will close to tell the Generator to start. It is very important that the Generator be sent a Stop message so that this condition can be reset and the Generator can go in normal Auto-Start mode.

1.4 Stop Generator (montick: 06)

montick: 06

MontTICK will send back a reply SMS to the telephone that sent it the message and say:

“OutPut1 OFF-Stopping”

1.5 Out of Auto (montick: 07)

montick: 07

It is important to note that the generator controller must be in Auto mode on the control panel for this to work, if it is in Manual then only a manual button-push will be able to start the genset.



MonTICK will send back a reply SMS to the telephone that sent it the message and say:

“OutPut2 ON-Out of Auto”

MonTICK will energise the Output 2 Relay. Depending on the Generator controller in use this relay will be connected in order to inhibit start; or to disconnect the remote start condition.

1.6 Automatic Mode (montick: 08)

montick: 08

It is important to note that the generator controller must be in Auto mode on the control panel for this to work, if it is in Manual then only a manual button-push will be able to start the genset.

MonTICK will send back a reply SMS to the telephone that sent it the message and say:

“OutPut2 OFF- Back to AUTO”

1.7 Setup Telephone Number (montick: 01,01,1,+27820004567,01111100)

To set up the first number do:

montick: 01,01,1,+27820001234,01111100

To set up the second number do:

montick: 01,02,1,+27820005678,01111100

To set up the third number do:

montick: 01,03,1,+27820009012,01111100

1.8 Mute MonTICK (montick: 09)

montick: 09

MonTICK will stop sending any sms messages – used when a condition is known and notification not needed for a time. Remember to un-mute with (montick: 10) or this montick will not send messages.

1.9 Un-Mute MonTICK (montick: 10)

montick: 10

This will reset the Mute condition so that the MonTICK will send messages.

1.10 Change Site Name

montick: 02,NewSite Name

1.11 Setup Nagging timeouts

When one of the following conditions occur, MonTICK will let you know repeatedly that the condition is still present. You can decide how frequently you would like to be notified. For example; if you have a low fuel alert (<30% fuel) you can have MonTICK send an sms every 15 minutes, or every day (1440 minutes). If you have a big tank, 30% could still last you another 2 days, but if you have a 100L tank it could be an hour or two, and you thus need notification more regularly.

montick: 18,02,60 - For Battery Charge Failure (every 60 minutes)

montick: 18,03,120 - For Fuel Low (every 120 minutes, 2 hours)

montick: 18,04,180 - For Run/Stop (every 180 minutes, 3 hours)



montick: 18,05,360 - For Common Alarm (every 360 minutes, 6 hours)

montick: 18,06,720 - For Power Status (every 720 minutes, 12 hours)

The value 30, 60,120 is approximate time in minutes. (Every 30 minutes)

For single digit minutes, use 02, 05, 09 etc.

2 SMS ALERT EXAMPLES

2.1 Charger Fail Alert (Battery is below 12.80V for more than 5 minutes)

Mandela Drive, ChargeFail,Fuel,98,Stopped,Battery,1150,Hours,34,Signal,21,Time,ddmmyyyy
hh:mm

2.2 Status Message

Mandela Drive,Status,Fuel,78,Stopped,Batt,1337,Hours,35,Signal,22,Time,30092013 07:00

2.3 Low Fuel (This Alert activates when Fuel level is below 30%)

Mandela Drive,Fuel Low,28,Running,Batt,1337,Hours,36,Signal,22,Time,30092013 17:13

2.4 Run/Stop

Mandela Drive,Running,Fuel,88,Batt,1337,Hours,37,Signal,20,Time,30092013 17:13

Mandela Drive,Stopped,Fuel,88,Batt,1337,Hours,38,Signal,18,Time,30092013 17:38

2.5 Common Alarm

Mandela Drive,Common Alarm,Fuel,78,Stopped,Batt,1337,Hours,38,Signal,18,Time,30092013
07:00

Information displayed in this document is indicative only, and may vary from unit to unit.



Small Holding 348

Tiegerpoort

Pretoria

Phone: Michael Beukman—082 374 9842

Email: michael@gentick.co.za