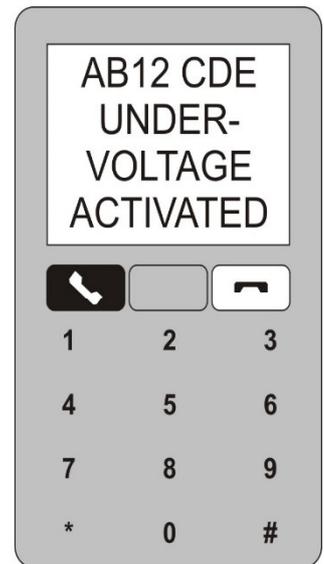


INSTALLATION GUIDE AND MANUAL

UNDERVOLTAGE DETECTOR TEXT

AUTOMATIC UNDERVOLTAGE DETECTOR NOTIFICATION



1 YEAR WARRANTY

Designed and Manufactured in the UK by
LUDO McGURK SVE
WILMSLOW - U.K.



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1 INTRODUCTION

This manual describes installation and usage of the 092-2006-XX-TEXT Under-voltage Detector SMS, which has been developed to notify users via text message when a vehicle's battery goes under-voltage.

In the case of a low battery condition, the unit will send a text message to up to 4 different phone numbers to alert the user or fleet manager of the fault. This allows the user to remedy the fault by either putting the vehicle on charge, or by isolating the battery to prevent it being drained further.

Once the under-voltage condition has been corrected, the unit will send another message to notify the user that the under-voltage condition has been corrected.

The Under-Voltage Detector Text contains a SIM card (not supplied), like a mobile phone.

The unit is ideal for monitoring the batteries in unattended vehicles which may have to be used at a moment's notice.

The unit is set as standard to send an under-voltage alarm when the battery voltage reached 12.0V (24.0V for 24V models). The unit will switch off the under-voltage alarm condition when the battery voltage reaches 13.0V (26.0V for 24V models). This means that unless the vehicle is plugged in to a battery charger or started up, the under-voltage condition will remain.



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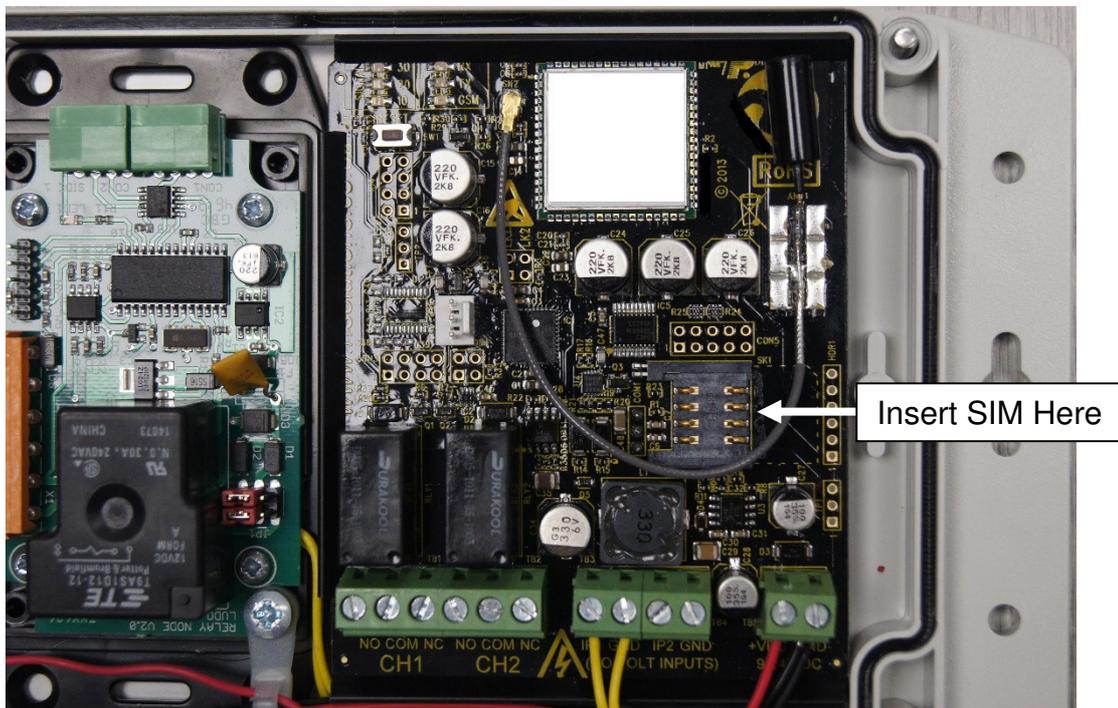
2 SIM CARD

The Under-Voltage Detector Text does not include a SIM card. You will need to insert a SIM card into the Under-Voltage Detector Text.

The unit will accept most types of SIM cards, subject to the following restrictions:

1. Only 3 Volt SIM cards will be correctly read. Older 5 Volt types will be ignored.
2. The message memory of the SIM card should be clear before it is fitted to the Under-Voltage Detector Text.
3. SIM cards that have been protected by means of a PIN (in a mobile phone) will not operate in the unit.
4. Some types of pay-as-you-go SIM cards may require regular call activity (once every six months) to remain registered.
5. We recommended that you bar incoming voice calls to the SIM card before it is used in the Under-voltage Detector Text unit, to avoid any error messages being sent back to the user. This can be achieved by calling the service provider.
6. The SIM card should be inserted into the Under-Voltage Detector Text before applying power
7. The Text feature of this product has been extensively tested using O2 and Vodafone SIM cards. Problems have been identified using Orange SIM cards. We can therefore only recommend the use of O2 and Vodafone SIM cards

To insert the SIM, first undo the four screws on the base of the unit to open it.



Insert your SIM card into the slot indicated above. Slide the SIM card in, in the direction of the arrow. Now replace the unit lid and tighten all the screws, making sure no wiring is trapped in the seal.



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3 INSTALLATION

1. Choose a suitable location to install the unit. As the unit is installed in an IP66 case, most locations would be suitable, but the unit should be kept away from sources of excessive heat. Unit should be mounted using screws through the mounting holes on the base if the unit.

The location should also be chosen that the unit is able to receive a mobile phone signal. Mount the unit high up on the vehicle and avoid putting it in an enclosed metal casing.

2. The unit has a simple 2 wire installation. Connect the red and black wires to the positive and negative terminals of the vehicle battery that is to be monitored. The unit and installation should be protected with a 1A blade fuse at the battery.
3. Once the unit is powered up, it may take up to 5 minutes to establish a connection with the mobile network.



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4 SET UP

To set the unit up, you need to:

- Tell it which numbers to send a text in the event of an under-voltage condition.
- Give the unit a unique identifier, in order to identify the vehicle with the under-voltage condition.

You do this by sending a text to the device. The table below shows the messages that must be sent to the device. Anything **UNDERLINED** in the example should be entered exactly as it is shown here, and **not changed**:

Command	Description	Message to send to the device:
Number to text	This command is used to identify the mobile number, which is to be notified if an under-voltage condition has occurred Up to 4 mobile numbers can be stored. To enter another number, repeat the command in another message.	<u>1234</u> <u>IPNUM1</u>,<Telephone Number>
Change Device Name	By default, each Under-Voltage Detector text has its serial number as a name (see example on following page). If you wish to rename your Under-Voltage detector text use this command. The UID must be an alphanumeric string between 4 and 10 characters	<u>1234</u> <u>UID</u> <New Name>
Delete numbers to text	To delete all the phone numbers from the list, send it the following message.	<u>1234</u> <u>IPNUMDEL1</u>
Retrieve saved numbers to text	This command requests a list of the mobile phone numbers to text in the event of an under-voltage condition	<u>1234</u> <u>IPNUM?1</u>



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5 EXAMPLE SET UP PROCEDURE & OPERATION

In this example, we have just installed an Under-Voltage Detector Text, with serial Number **00001**. We now need to set up which numbers it should text in the event of an under-voltage condition.

The password is **1234** and the default unit name is **UVT00001**.

The default unit name of your own under-voltage detector text will have its own serial number in place of "L00001".

- We will tell it to send the message to 07777121212 and 07777232323

Message 1 to send to UV Detector Text: **1234 IPNUM1,07777121212**

Response from UV Detector Text: **UVT00001 INPUT1 Tel Nos:- 1 = <service number> 2 = 07777121212**

Message 2 to send to UV Detector Text: **1234 IPNUM1,07777232323**

Response from UV Detector Text: **UVT00001 INPUT1 Tel Nos:- 1 = <service number> 2 = 07777121212 3 = 07777232323**

- Now we want to check which numbers we have programmed in, just to make sure they're the right ones:

Message 3 to send to UV Detector Text: **1234 IPNUM?1**

Response from UV Detector Text: **UVT00001 INPUT1 Tel Nos:- 1 = <service number> 2 = 07777121212 3 = 07777232323**

<The first number listed is the service number for this unit, which allows us to assist you>

- Next, to test the UV Detector Text functions correctly, we simulate a flat battery and check that we receive an under-voltage condition text. The best way to do this is to put a load on the battery and wait for the voltage to go below 12V.

Message from UV Detector Text: **UVT00001 UNDERVOLTAGE ACTIVATED**

Now, correct the under-voltage condition, by plugging in the vehicle's battery charger for example. Once the battery voltage rises above 13V the following message should be received:

Message from UV Detector Text: **UVT00001 UNDERVOLTAGE DE-ACTIVATED**



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6 SPECIFICATIONS

MODEL #	VOLTAGE	DIMENSIONS WxDxH (mm)	OPERATING VOLTAGE	OPERATING CURRENT
092-2006-12-TEXT	12V	220x120x40	6V to 15V DC	50mA
092-2006-24-TEXT	24V	220x120x40	18V to 32V DC	50mA

User Quick reference sheet

To the installer: Please complete this sheet and give it to the user.

Under-voltage Detector serial number:	
Under-Voltage Detector Location:	
Under-Voltage Detector SIM number (for SMS):	
Your Under-Voltage Detector Text will send a message to these numbers when power is restored after a power failure:	



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WARRANTY

All products of Ludo McGurk Transport Equipment Ltd. are warranted to be free of defects of material or workmanship. Liability is limited to repairing or replacing at our factory, without charge, any material or defects which become apparent in normal use during the warranty period as shown on the front of this manual. The warranty period runs from the date the equipment was originally shipped from Ludo McGurk Transport Equipment Ltd to you. Equipment is to be returned; shipping charges prepaid and will be returned after repair, return shipping charges paid.

Ludo McGurk Transport Equipment Ltd shall have no liability for damages of any kind to associated equipment arising from the installation and /or use of any Ludo McGurk Transport Equipment Ltd products. The purchaser, by the acceptance of the equipment, assumes all liability for any damages, which may result from its installation, use or misuse, by the purchaser, his/her or its employees or others.



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