

MATelec ME-Link SMS Alarm/Status Communicator FPC-30121 User Guide

Home » MATelec » MATelec ME-Link SMS Alarm/Status Communicator FPC-30121 User Guide 1



QUICK START GUIDE SMS Alarm/Status Communicator FPC-30121



Introduction

MATelec Australia's SMS Alarm/Status Communicator features the newly designed ME-Link Module, which is a cellular CAT-M1 remote monitoring and control device utilizing the 700Mhz frequency for best in class signal strength. The Communicator reports status information and active alarms from up to 8 digital inputs, which can be connected to volt-free outputs on a control panel or used for sensor inputs. The ME-Link Module can also be utilized to control external devices with the two onboard relay outputs and uses easy to set up SMS commands to configure the operation and alarms without the need for any additional software.



This SMS alarm sender panel has been designed and built for applications that are Commercial and/or Industrial in nature, operation, function, and location. If the control panel is to be used in Domestic/Residential applications, where specific Wiring Rules in respect of 'electrical supply' protection may apply, it is the responsibility of the installing electrician to ensure compliance with relevant standards.

- Prior to installation, ensure the power supply is isolated.
- Electrical connection to the panel must be carried out in accordance with the following pages.
- Additions or modifications to the control panel are not permitted and will void the warranty.
- The controller is not intended for use by children or infirm persons without supervision.
- Repairs to the controller must only be carried out by a suitably qualified electrician.

This quick start guide makes use of the following symbols to indicate warnings that must be paid specific attention to:



Damage to equipment or personal harm may occur if this instruction is not followed

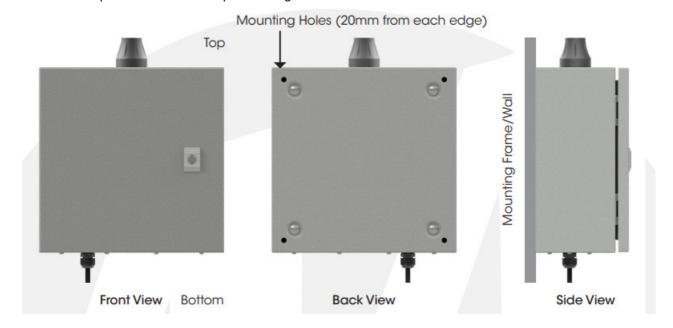


Electrical risk (electrocution hazard) may occur if this instruction is not followed

Contents

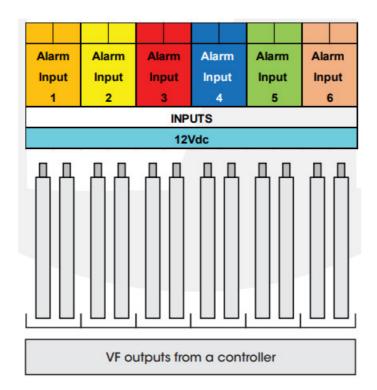
- 1 Step 1 Installation
- 2 Step 2 Connections
- 3 Step 3 Setup
 - 3.1 SIM Card Installation
 - 3.2 Enable Battery Backup
 - 3.3 Testing Mobile Connection
 - 3.4 Mains Powerup
- 4 Step 4 SMS Programming
 - 4.1 Set the SMS alarm sender title
 - 4.2 Set the numbers to receive alarm messages
 - 4.3 Set the digital input alarm messages to be received
 - 4.4 Additional Informative Commands
- **5 User Settings**
- 6 Documents / Resources
- 7 Related Posts

- SMS alarm sender must be installed in a position where mobile reception is available.
- SMS alarm sender enclosure must be mounted in a vertical position.
- Ensure mounting method does not compromise enclosure weatherproof rating.
- Ensure cables/conduits entering the panel have mechanical protection and that the penetrations are sealed and do not compromise the weatherproof rating of the enclosure.



Step 2 – Connections

Warning: All electrical connections must be carried out by a suitably qualified and registered electrician **Terminal Connections**





SIM Card Installation

The SMS alarm sender takes a Micro SIM card which must be from a network operator who offers the CAT-M1 700Mhz frequency. At the time of printing, all SIM cards that use the Telstra network will be compatible. Other network providers will be compatible when they support CAT-M1 modules.

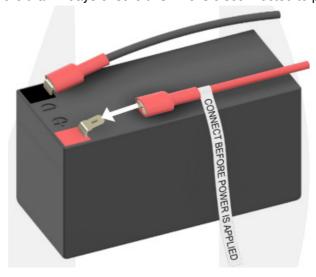
- 1. Ensure power to the panel is OFF.
- 2. Firstly, ensure that the SIM card is activated with credit and ready to send text messages. Also, ensure that the SIM PIN is disabled.
- 3. Insert the SIM card with the chip gold plate facing down and the missing corner to be inserted in first. See pictures below.
- 4. The SIM needs to be pushed in firmly. Ensure that it fits properly in the SIM holder.



Enable Battery Backup

To have the SMS alarm sender operating when power fails, the internal battery must be connected. With power isolated, connect the loose wire near the battery labeled 'CONNECT BEFORE POWER IS APPLIED'. See image to the right.

If power is to be isolated for more than 7 days ensure this wire is disconnected to prevent the battery going flat.



Testing Mobile Connection

The SMS alarm sender is tested and programmed by sending SMS messages to the SIM card's phone number.

1. Check the SMS controller's indicator lights to ensure that power is on and sim card is connected to a mobile network. If there is no reply, check the indicator lights status table below:

Link	Status
*	0
*	*
0	•
0	*
0	**
0	***
0	****
0	****
0	*****
0	*****

Description	Function	Cause
Green Flashing, Red Off	Network connected	N/A
Green Flashing, Red 1 Flash	Network connected, sending SMS	N/A
Green Off, Red Solid	Hardware fault	Contact supplier for further assistance
Green Off. Red 1 Flash	Connecting. searching for mobile n etwork	Wait for network connection search to finish
Green Off. Red 2 Flashes	Network connection failed	Check the SIM card is activated and has credit
Green Off, Red 3 Flashes	Network is not found/ Poor signal st rength	Check the antenna connection and the mobile signal at the device.
Green Off, Red 4 Flashes	Network connection denied	Check SIM is Telstra compatible and SI M is active and has credit (Only Telstra networks are currently valid)
Green Off, Red 5 Flashes	SMS failed to send	Check that SIM is still installed, active a nd has credit
Green Off, Red 6 Flashes	SIM card not detected	Install or reinstall Micro SIM card and c heck installation orientation
Green Off. Red 7 Flashes	SIM Pin is enabled	Disable the SIM pin before retrying con nection

2 . To test the system is operating correctly, send #title? to the phone number of the SIM card. This will send a reply from the SMS controller to show it is ready for programming. If there is no reply within 1 minute see the status lights above.

Mains Powerup

Close and secure enclosure door, connect the power lead into RCD-protected GPO and switch on mains power. MATelec Australia reserves the right to alter technical data without notice

Step 4 – SMS Programming

User Commands

SMS commands are sent to the phone number of the SIM card installed. This phone number should be supplied with the SIM card. Commands sent ending with '?' are a query of the command setting, commands sent without this are used to configure the setting. The symbols < > are used to reference user information to be sent in the commands, and should not be send in the command message.

Set the SMS alarm sender title

#title <new title>

Use this command to add the SMS alarm sender title (max 50 characters).

Example SMS command: #title ME-Link SMS Alarm Sender

The title will be set to 'ME-Link SMS Alarm Sender'. This will be sent with each alarm message sent from the SMS alarm sender.

#title?

Use this command to enquire the current SMS alarm sender title.

Set the numbers to receive alarm messages

<slot> is the phone book slot from 1 to 10 which phone numbers can be added and deleted from.

<number> is the phone number assigned to the phone book slot that will receive the alarm messages.

#num add <slot> <number>

Use this command to add the phone numbers.

Example SMS Command: #num add 3 0406446XXX

The phone number 0406446XXX will be added to phone number slot 3.

#num del <slot>

Use this command to delete a phone number

Example SMS command: #num del 3

The phone number 0406446XXX is deleted from slot 3.

#num?

Use this command to request the phone number list. Empty slots are reported as -------

Set the digital input alarm messages to be received

Each digital input will send a message when the input turns on (goes high) and when it turns off (goes low). Inputs 7 and 8 are preprogrammed for power fail and battery voltage low alarms. <input> is the digital input number from 1 to 8 that will trigger the SMS alarm messages.

<message> Is the text message you want to send to the phone number based on the input state.

#msg <input> on <message>

Use this command to set alarm on messages for specific inputs.

Example SMS command: #msg 3 on High-Pressure Fault

The Input 3 on message will be set to 'High-Pressure Fault'.

#msg <input> off <message>

Use this command to set alarm off messages for specific inputs.

Example SMS command: #msg 3 off High Pressure Cleared

The Input 3 off message will be set to 'High Pressure Cleared'.

#msg all on?

Use this command to request alarm messages for all inputs in ON state.

1. Power On/Restored
2. High-Level Fault
3. Pump 1 Fault
4. Pump 2 Fault
5. ———-
6. ———
7. ME-Link Mains Power Failure
8. ME-Link Battery Voltage Healthy
#msg all off? Use this command to request alarm messages for all inputs in OFF state. Example response: Input on messages:
1. Power Off/Failure
2. High-Level Fault Cleared
3. Pump 1 Fault Cleared
4. Pump 2 Fault Cleared
5. ——
6. ———
7. ME-Link Mains Power Restored
8. ME-Link Battery Voltage Low
Additional Informative Commands
#info? Use this command to request the status information of the device. Example response: <title> Ver: <firmware revision> RSSI: <signal strength> Power: <supply voltage> Time: <network current time> Reminder: <on or off> Test msg: <on or off></td></tr><tr><td>#inputs? Use this command to request status of all inputs. Example response (input 1 only):</td></tr></tbody></table></title>

Input 1 OFF: ALARM ACTIVE Input state as ON/OFF and corresponding alarm direction: 'Alarm Active' or 'Alarm

Notified once Alarm notification state: 'Notified Once', 'Not Recorded', 'Not Accepted Yet' or 'Accepted'

Activated: Alarm state: 'Last Active' if inactive or 'Activated' if active

#reset

Inactive'

Mon 07/12/2020 16:42

Time at which the alarm was last activated

Example response: Input on messages:

Use this command to reset all settings back to defaults, including the PIN.

Example SMS Command: #reset

Response: Are you sure you want to factory reset? Enter #reset again within 1 minute to confirm

SMS Command: #reset

Response: Device has been reset back to factory defaults.

#help?

Use this command to request help on what commands are available and get more detailed information about different commands. Refer to the ME-Link Operation Manual for more detailed information on all the SMS commands.

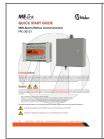
Quick Start Complete

The SMS alarm sender is now configured and has begun operation. Refer to ME-Link Operation Manual for more information on the operation of the ME-Link SMS module.

User Settings

	SIM Card Phone Number	
Number:		
	SMS Alarm Sender title	
Title:		
	Phone Numbers	
Slot 1:		
Slot 2:		
Slot 3:		
Slot 4:		
Slot 5:		
Slot 6:		
Slot 7:		
Slot 8:		
Slot 9:		
Slot 10:		
Digital Input Alarm Messages		
Input 1 On		
Input 1 Off		
Input 2 On		
Input 2 Off		
Input 3 On		
Input 3 Off		
Input 4 On		
Input 4 Off		
Input 5 On		
Input 5 Off		
Input 6 On		
Input 6 Off		
Input 7 On	ME-Link Mains Power Failure	
Input 7 Off	ME-Link Mains Power Restored	
Input 8 On	ME-Link Battery Voltage Healthy	
Input 8 Off	ME-Link Battery Voltage Low	

Documents / Resources



MATelec ME-Link SMS Alarm/Status Communicator FPC-30121 [pdf] User Guide MATelec, ME-Link, SMS, Alarm, Status, Communicator, FPC-30121

Manuals+,