Description MAG8000 GSM/GPRS Toolbox ©T.Milz 2014



Basic Settings:

- ∲ 🖗 🎽 🕌 MAG80		ارر 🗟 🕼 PRS Toolbo	🕶 21:02 x V1.20) ≍ 🖻 \G8000 G	SM/G			💌 21:03 x V1.20
SMS No.:	+491738909	1595		SMS No.:	+49	173890	9595	5	
BASE EM	IAIL TIMEPR	OG ALARMS	OTHER	BASE	EMAIL	TIMEP	ROG	ALARMS	OTHER
Predefined Prov Germany Denmark		Vodafone.de ↓ Apply		Predefined Germai	d Providers: ny			lafone.de lafone.de	
_c Egypt		ed!		Only ticked	boxes will be		Pay	/back	
F Estonia		+4917222703:	33	P3	Sms Cente	er:	sm	obil	
Finland		26202 web.vodafone.	.de	P2	MCC:*		Т-№	lobile	
France				P11	APN User:		Cor	ngstar	
F Germany				P12	APN Pass:		Kla	rmobil	
Greece		139.7.30.125		P13	DNS Serve		0²		

Many predefined providers of different countries:

Changing Settings is quite easy:

) 🔀 🕏 \G8000 GSM/(ارر 🗟 🕼 GPRS Toolbo		1 🖗 🖗		SM/G	ارر 🗟 🕼 PRS Toolbo	21:03 x V1.20
SMS No.:	+4917389	SMS No.: +491738909595						
BASE	EMAIL TIME	PROG ALARMS	OTHER	BASE	EMAIL	TIMEPR	OG ALARMS	OTHER
P8 🗹	Sms Alarm2:	1234567890		P8 🗹	Sms Alarm	າ2:	1234567890	
Р9 🗹	Sms Recieve Values:	1234567890		Р9 🗹	Sms Recie Values:	ve	1234567890	
P52	Transmission Mode:	Email & SMS	_	P52	Transmiss Mode:	ion	Email & SMS	_
P51	Ident String:	Email & SMS	4	P51	Ident Strin	g: 	APP IDENT	_
P53	Analog Input:	SMS only	4	P53	Analog Inp	out:	Serial Num	4
Do Not se	et Sms-Masters b	Email only	t!	Do Not se	et Sms-Mas	ters be	APP IDENT	ť!
P4	Sms Master1:	1234567890		P4	Sms Mast	er1:	APP_LOCATI	ON
P5	Sms Master2:	1234567890		P5	Sms Mast	er2:	1234567890	
P6	Sms Master3:	1234567890		P6	Sms Mast	er3:	1234567890	
	Tick all				Tick all			

Email Settings:



TimeProg:



App will check, if Sample Rate and Transmission Interval is within allowed limits. If not, the send button will be disabled and the settings will be shown red colored:

	ᅅ 🎽 🖄 G8000 G		収 奈 .ill S Toolbo	🕶 21:06 x V1.20
SMS No.:	+49	173890959	5	
BASE	EMAIL	TIMEPROG	ALARMS	OTHER
Only ticked l	ooxes will be	transmitted!		
P55 🗹	Sample Ra	ite: 1	mi	n
P56 🗹	Transmiss Intervall:	ion 72	h	
P61	Sync Time	: 00		00
1 2	3 4	56	78	9 0
! @	D # S	\$ % 8	& * í	? /
- "	, (- +	; -
(/2 :	, [. A	BC 🗣

Alarms. App makes Alarm Settings "readable":

اب ال	i 🖸	X 🗘		以 令 . 山	🕶 21:06
	MA	G8000 G	SM/GPR	S Toolbo	x V1.20
SMS	No.:	+49	173890959	5	
BAS	SE	EMAIL	TIMEPROG	ALARMS	OTHER
Tick a	ll of th	e alarms, you	ı want the moo		
	GS₩	l signal stre	ength		
Three	shold	Value for A	larm:	no alarr	n
	GPR	S availabili	ty problem		
	Mem	nory alloca	tion error		
	Inter	nal SW erro	or		
	Prob	lem with c	onfiguration		
	Prob	lem with o	utgoing SMS	S transf.	
	Prob	lem with o	utgoing ema	ail transf.	
	Una	uthorized a	ccess		
	Rem	aining batt	ery lifetime	less than 1	0%
	Wro	ng configui	ation		
	Inter	rnal commi	unication err	or	
	Pow	er-up failu	e		
	Firm	ware error			
	Hard	dware error			
	Not	used			
	Not	used			
	Insu	lation erroi			
	Coil	current erro	or		
		implifier ov			
	Prea	impliner ov	enoau		



Extras:

∲ ∲ © ≍ 🖻 ∰ MAG8000 GSM/0		🖅 21:08 x V1.20	~		GSM/GPR		🕶 21:08 x V1.20
SMS No.: +49173890	9595		SMS No.:	+49	9173890959	5	
BASE EMAIL TIMEP	ROG ALARMS	OTHER	BASE	EMAIL	TIMEPROG	ALARMS	OTHER
Load & Save Config-Files: MeinTest	Load Fi	ile	Load & Sa MeinTe		Files:	Load Fi	le
	Delete F	ile	MeinTe	st		Delete F	ile
MeinTest	Save F	ile	Muencl	hen		Save Fi	le
Enter / Change Pin: Current Pin:			Muencl				
New Pin:			Rautec				Pin
Get current config File: Send Config			(Rünzlei				
To Email:		d Now!	Stefan2	2			d Now!

Load and Save Configurations:

You could also use the configuration files, which gets send by the module. The structure is the same. You just have to copy it to the MAG8000 folder on the SD-Card. Use as filename: $name_01234567.txt$ name = the name, which gets shown in the list of the app 01234567 = the mobile number of the module to send SMS to.

~	🎽 🔁 G8000 0	SM/GPR		21:09x V1.20			GSM/GPR		🕶 21:09 x V1.20
SMS No.:	+49	173890959	5		SMS No.:	+49	9173890959	5	
BASE	EMAIL	TIMEPROG	ALARMS	OTHER	BASE	EMAIL	TIMEPROG	ALARMS	OTHER
Get current	t config Fil	e:					Send TestM	1ail	
Send Confi To Email:	g			d Now!					
	Sį	pecial Comm	nands:				(needs Pin		
		Battery Capa	acity						
	G	et Current V	alues						
					1		GSM/GPRS		
		Reset Aları	ns		c		, Suggestion		orts?
		Send TestM	<i>l</i> ail				free to drop r		
							~		
		(needs Pin							

Other Commands:

Preferences:

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	MAG	8000 G	SM/GPR	S Toolbo	x V1.20
SMS N	o.:	+49	173890959	5	
BASE		EMAIL	TIMEPROG	ALARMS	OTHER
			Send TestN	/lail	
			(needs Pin)	
	М		GSM/GPRS T.Milz 2012		.20
	Pre	eferenco	es		?
	F.A	A.Q.			
	Sh	ow Log			
	De	lete Log	g		

Preferences

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🚔 MAG8000 GSM/GPRS Preferences
Set Language: English
Request Send Notification (recommended)
If your provider charges for send notifications, you could also disable this. But then you won't know, if your messages have been delivered.
Waiting period between two transmission errors: [5s]
Abort after [3] transmission errors.
Any module will store up to [5] backup files
Apply

- Set App Language here (English / German)
- Request Send Notification
 If ticked, the app will wait for a response from the mobile provider.
 This is not the response of the module!! It's just to make sure the SMS has been delivered to the provider.
- The waiting period is to make sure the app won't sent too many sms too fast. (Remember:

The app automatically splits configuration SMS which would get longer than 160 characters)

- Abort after [x] transmission errors If the connection to the provider is very poor, the app will give up after that many transmission trials
- Any module will store up to [x] backup files
 Backup-Files are a kind of Undo Feature.
 Whenever you save a configuration file, the app will look into it, and if there are some changes it will automatically create a backup file of the former settings.
 Than you can easily undo your changes, if you e.g. by accident edited the wrong preference file. See also F.A.Q.

Preferences:



Here you can also delete log files and/or backup files.

Loading Backups:

Just press longer on the name of a saved configuration and the backup loading screen will open:



Log Files:

The App will also create log files.

Whenever you send a configuration SMS to a module, the commands will be stored in a log file. It also will from time to time check your inbound SMS messages for answers of the module and will copy them also into the log file.

I don't like Apps which are all the time running in the background, therefore I went this way.

Outgoing messages are marked with a >>, incoming messages are marked with a << An [ok] shows, that there wasn't any transmission errors.



<u>Commissioning MAG8000 GSM-Module</u> <u>What is MCC and when is it needed?</u> <u>DNS-Server, do I really need it?</u> <u>It can happen in the log file, that a SMS-answer gets shown before the request has been sent,</u> <u>why?</u> <u>Backup files? What is it good for?</u>

Commissioning MAG8000 GSM-Module

- Connect the GSM-Module (inclusive the rechargeable battery) to the MAG8000 at least 5 hours before you do any GSM-Module-Action. The rechargeable battery needs first some power to provide enough energy for the module to send SMS.
- 2. In the meantime (and there is plenty of time...) prepare your SIM-Card: Change its Pin to 1000 or totaly disable the pin-check.
- 3. Enter all data you already know (mobile provider info, email info, sms-numbers...) into your app and safe the configuration with a useful name.
- 4. After \sim 5 hours, put the SIM-Card into the module.
- 5. Press the small button on the GSM-Module for about 5 seconds. (LED will flash [try not to twinkle])
- 6. Now, first tick only the SMS-Center (P3) and send it to the module.
- 7. Wait...

You should get an answer from the module and from then on, your module is up and ready waiting for your orders...

What is MCC and when is it needed?

MCC = Mobile Country Code (<u>http://en.wikipedia.org/wiki/Mobile_country_code</u>)

It could be needed if your GSM-Module is near the frontier and you want to prevent it to connect to the wrong provider.

DNS-Server, do I really need it?

No, in most cases the module will get it automatically from the mobile provider.

It can happen in the log file, that a SMS-answer gets shown before the request has been sent, why?

Problem is:

When sending SMS the App will use the timestamp of the smartphone.

When a SMS arrive, it will use the timestamp of the mobile provider.

If the internal clock of your mobile phone is quite wrong, it could lead to strange effects in the log file.

Problem is, that the answers of a module doesn't get received "live".

In fact the app will look into your stored SMS and touch only those, which mobile numbers the App knews and saves them into the log-file.

I didn't want to create an app, which is all the time doing something in the background, that's why i decided to go this way.

!!NONE OF YOUR PRIVATE SMS WILL EVER BE TOUCHED OR USED!!

Backup files? What is it good for?

Whenever you save a configuration file, the app will check, if there have been any changes, and if yes, it will store a backup file.

Then you are able to reload older versions (this is a kind of "undo" function, you can also reanimate versions, if you did something wrong by mistake).

In the preferences you can select how many of those backup files should get created per module. You can select between 0 and 20. Selecting 0 will deactivate the backup functionality.

For loading backups, do a long click on the *Load File* Button.

Then you will enter the backups selection screen (if there are any for the current module).

If you don't save a loaded backup, the parameters won't get touched.

This means, you can load a backup just to examine it without changing anything.