



EUROMAG
INTERNATIONAL

GSM manual and Software User Guide



ENGLISH
TD 211-1-ENG

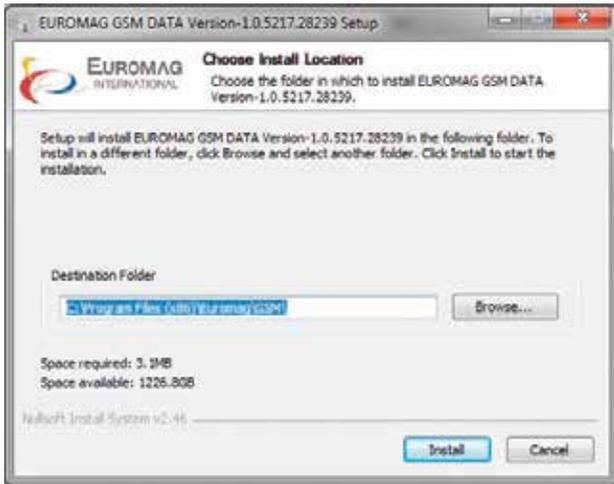


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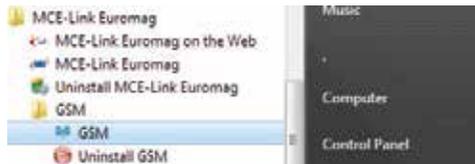
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1. SOFTWARE USER GUIDE

1. Install the GSM Euromag Software GSM_X.X.XXXX.XXXXX: follow program instructions during installation.

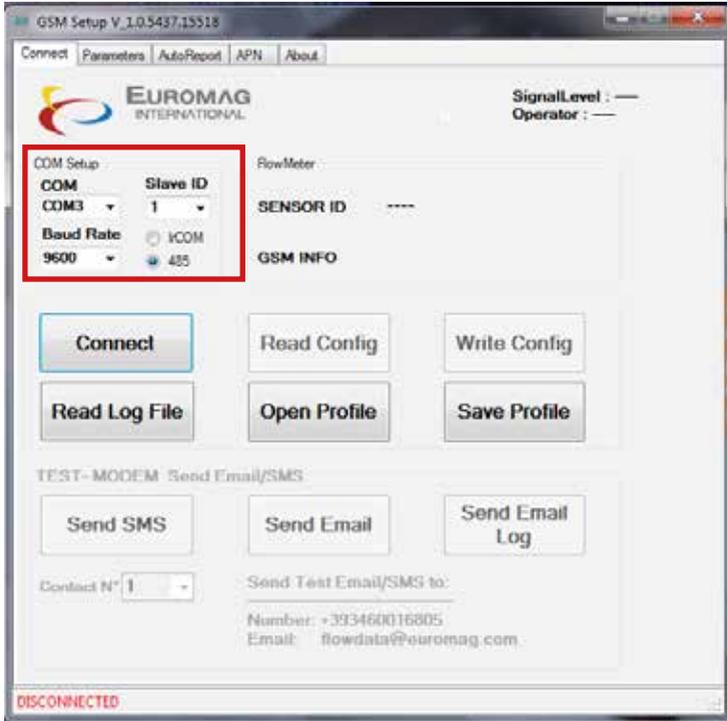


2. Run the program : Start -> MCE-Link Euromag -> GSM or click on the icon created on your desktop



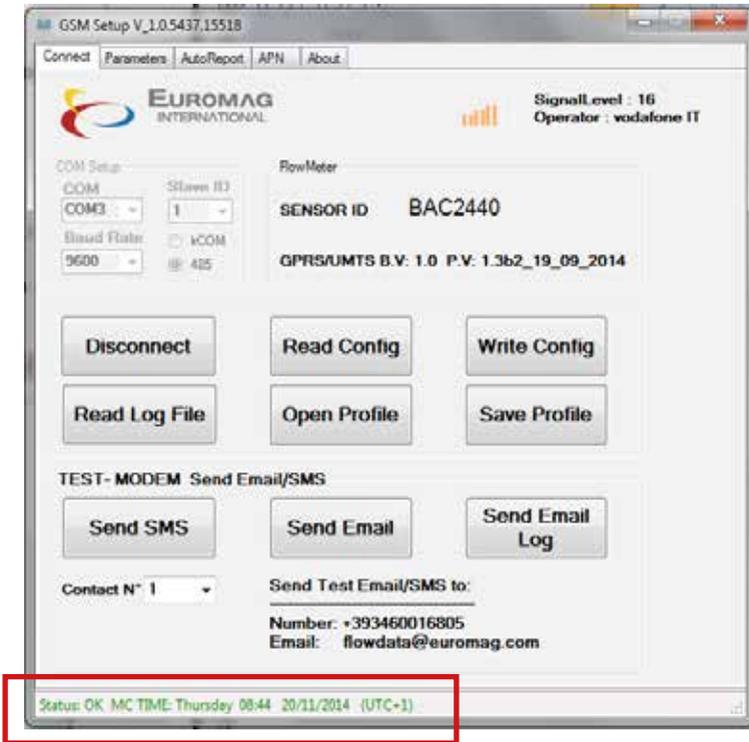
3. COM Setup :

- COM number, select the correct COM port of PC connected to MC608 (USB RS485 cable converter or IrCom cable, refer to MC608 manual TD210-1 par. 9.2)
- For RS485 cable select the correct Baud Rate and Slave ID (factory default: BR=9600 , ID=1), for IrCom cable select “ IrCom” button.



4. Click CONNECT and wait for connection , wait modem start up.





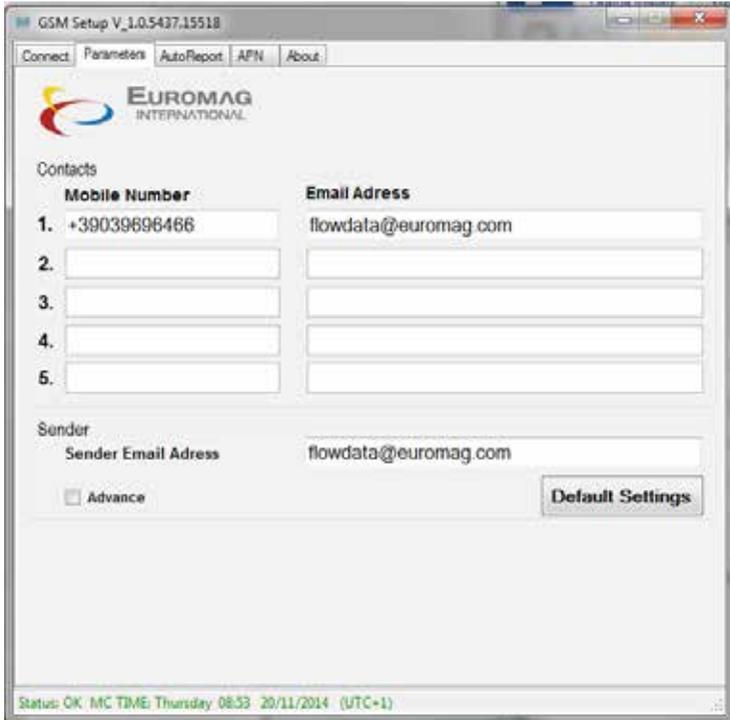
GSM Signal Level

Signal level	Power reception	
0	-113 dBm	No reception
1	-111 dBm	
2	-109 dBm	
3	-107 dBm	
... X	... -113 + (2*x) dBm	
30	-53 dBm	
31	-51 dBm	Maximum reception
99	not known or not detectable	

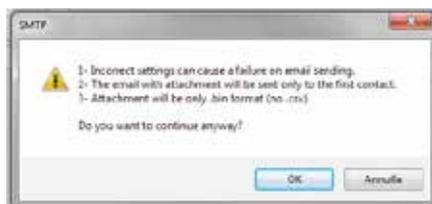
We recommend a Level of minimum 18 for a good communication.
 Under 18, the communication will work but with some errors,
 so some packets will be repeated and the overall throughput will decrease.

5. Parameters Configuration

- Contacts mobile number and email
- Sender email address configuration



- Note 1: before sending an email, a Sender e-mail address must be provided first. Use any e-mail address or leave Default address: flowdata@euromag.com
- Note 2: Euromag provides a pre-set sender configuration (SMTP, username and password) that can be modified at customer choice. Click “advance” check box to show advance settings (a message will appear). Incorrect settings can cause a failure on e-mail sending.



- Note 3: when using custom settings, SSL connection not supported.
- Note 4: when using custom settings, e-mail with attachment will be sent only to the first contact.
- Note 5: in case of e-mail sending failure, service provider may be blocking the e-mail. Please check with your mobile provider or use a different one.
- Note 6: csv file on e-mail attachment only available with Default Settings. When using custom settings, attachment will be only .bin format (no .csv).

6. Auto Report Interval

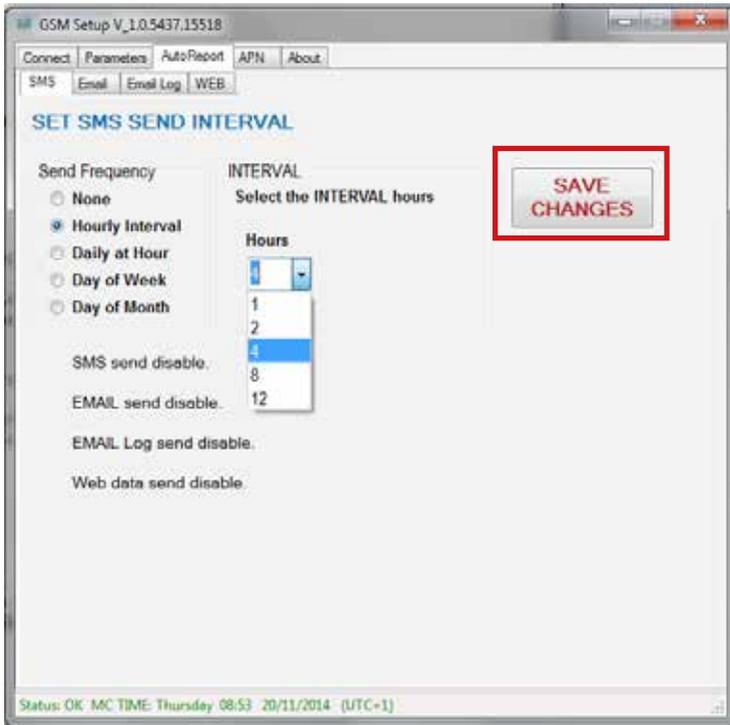
- SMS send interval
- Email send interval
- Email with log send interval (E-mail + attachment)
- Web data send interval



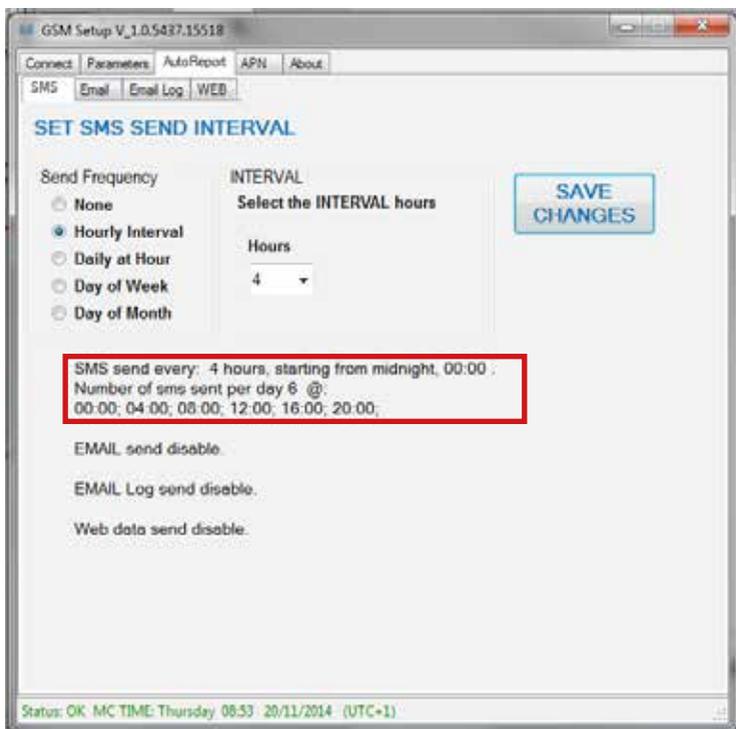
Send Frequency Options:

- None: Send disabled
- Hourly Interval: Send every x hours starting from mid-night 00:00
- Daily at Hour: Send every day at hour x
- Day of Week: Send every week ad day y at hour x
- Day of Month: Send every month day y at hour x

Example: set SMS send Interval:



To save changes click on Save changes Button.

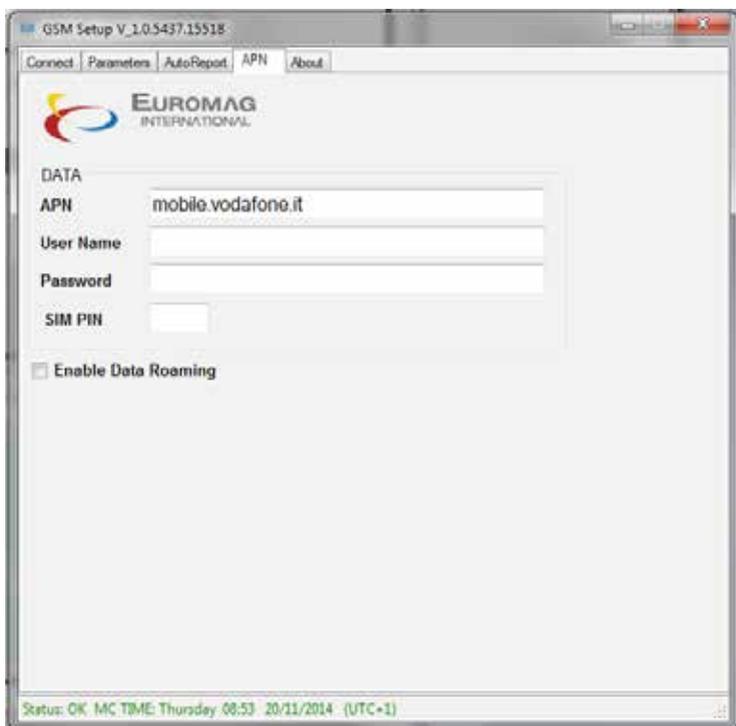


Repeat the procedure to set other send options



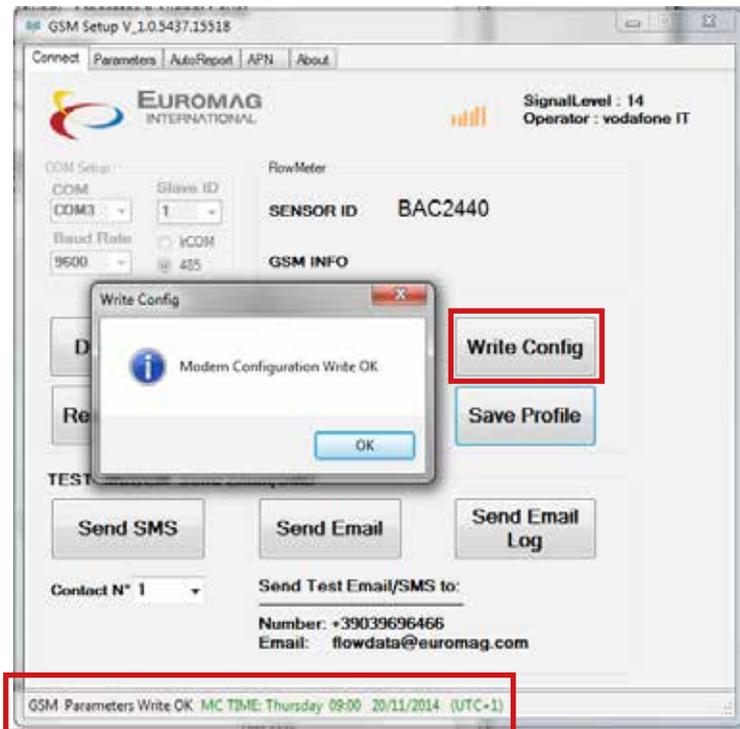
7. APN configuration

- - set up access point network provided by your operator for data connectivity
- - set up the PIN number of the SIM card if needed
- - enable data Roaming. NOTE -> If selected, an extra charge may be applied by the phone operator



8. Write Configuration

- Write current configuration to modem



9. Save current profile to file

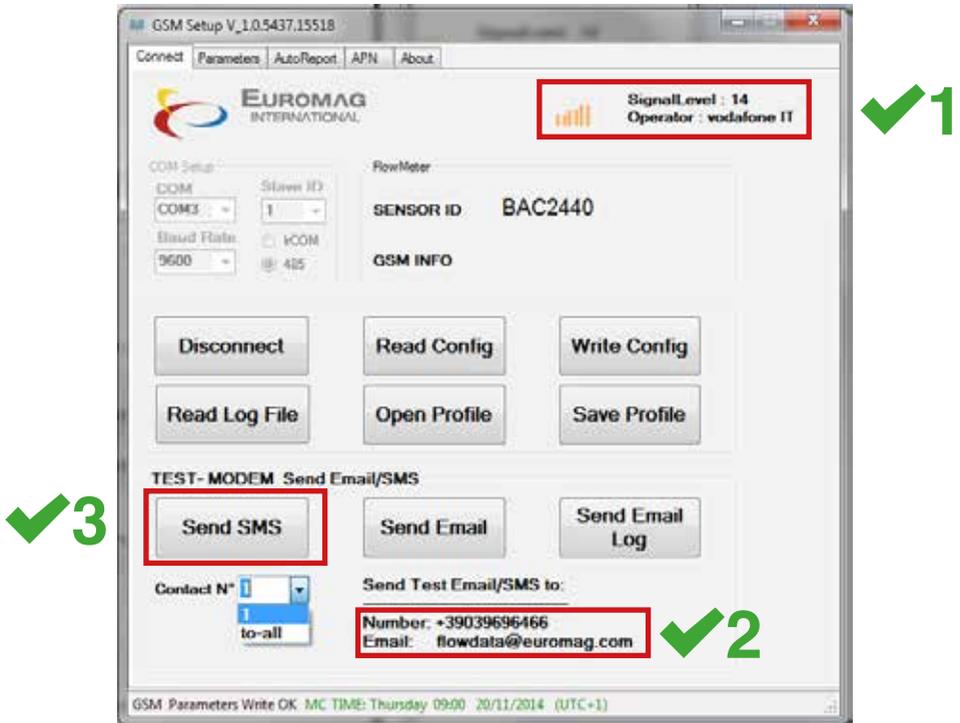
- Save current configuration to a file on PC. This can be used to program other modems with same configurations

10. Open profile from file

- Open a configuration from a file on PC

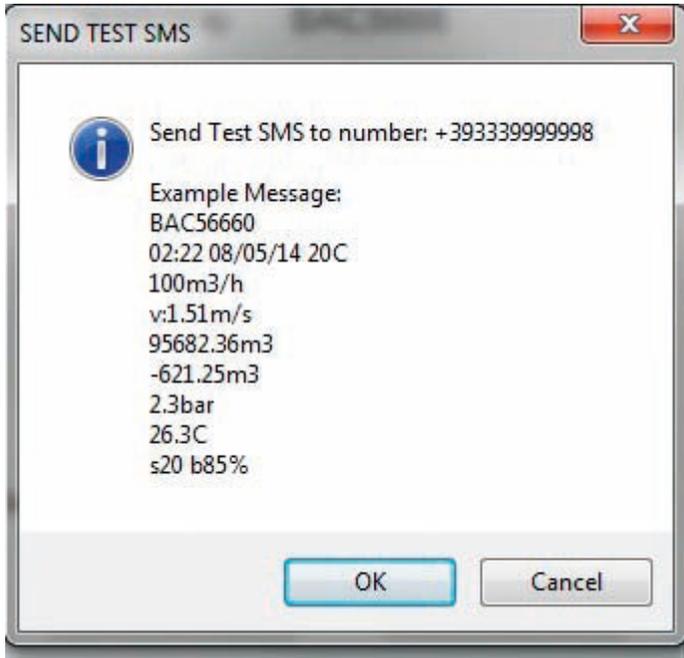
11. Test Functionality

- Test Network , Operator & Signal Level
- Test SMS sending
- Test Email Sending
- Test Email with data log sending



Test SMS

NOTE: an **R** will appear, when modem is on Roaming



In case of failed transmission the programmed schedule will not change, next try will be following the programmed time interval; the first good transmission will contain also the data lines that have not been sent.

NOTE

IF THE TRANSMISSION CONTINUES TO FAIL THE SEND INTERVAL IS REDUCED AUTOMATICALLY TO SAVE BATTERY LIFE, FIRST IS LIMITED ONCE A DAY (5 FAILURES), THEN ONCE A WEEK (9 FAILURES). AS SOON AS ONE ATTEMPT SUCCEED, THE REGULAR SCHEDULE IS RESTORED.

If the communication is not available for a long time the data keeps accumulating; if the size of accumulated data become too large, the transmission is divided in partial sending every hour to allow communication being faster and less difficult for the network.

12. SMS and E-mail test functionality from the Converter

- MENU -> OTHERS -> COMMUNICATIONS -> CELLULAR DATA
- Test SMS
- Test Email

sensor ID	TST1003
time/date	10:02 21/02/2014
converter internal temperature	21C
flowrate	202.346 m3/h
corresponding flow velocity	v:7.16 m/s
positive totalizer	96647.38 m3
negative totalizer	-360.768 m3
line pressure*	2.6 bar
line temperature*	14.7 C
network signal strength / battery residual energy	s18 b72%
alarms** (if any)	! FH

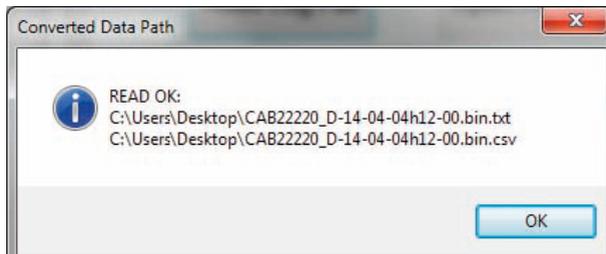
**only available with the line pressure / temperature option installed*

**ALARMS LIST

CE > coil excitation failure
EP > empty pipe detected
FH > high flowrate (over the selected threshold)
FL > low flowrate (below the selected threshold)
PO>pulses overlap
RE>flowrate read error
LV>insufficient voltage detected
HT>high converter temperature
LT>low converter temperature

13. Read Email Log data (only needed when using custom sender configuration on e-mail settings. When using Default settings, csv file available).

1. save the received email attachment file data.bin on PC
2. click on Read Log File Button and select the data.bin file to be converted
3. open the log file with any text editor (i.e. Excel).

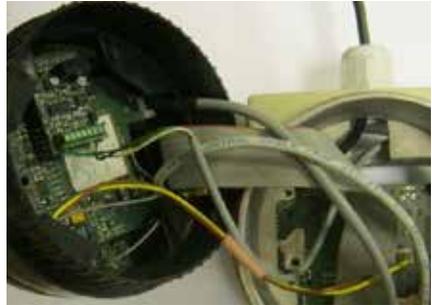


2. SIM INSERT / REPLACEMENT PROCEDURE

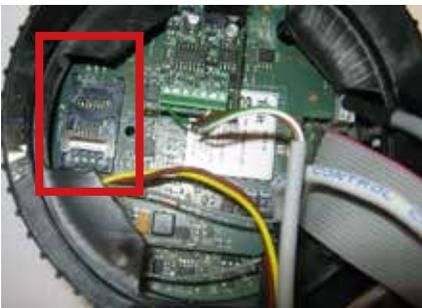
1. Remove the front cap of the converter



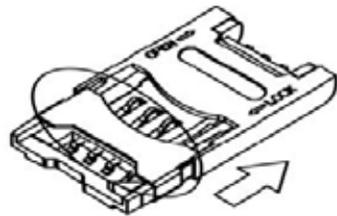
2. Carefully remove the front board support .



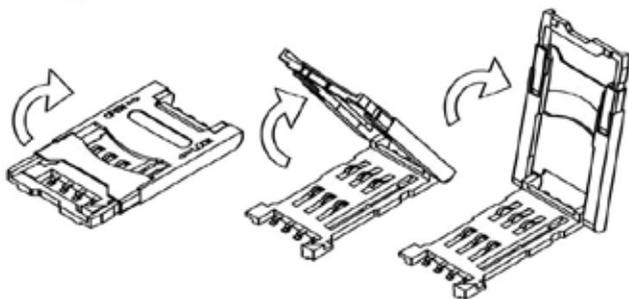
3. Carefully insert the sim following the instruction below...



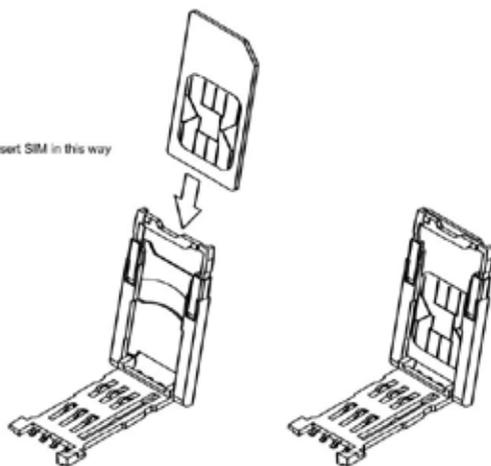
① Slide metal lock back



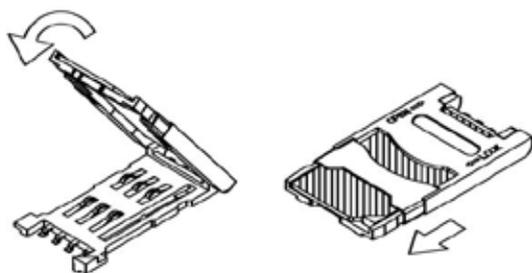
- 2 Open card holder section to allow SIM card to be inserted



- 3 Insert SIM in this way



- 4 Rotate lid back and slide metal clip back to lock holder in position



3. GSM MESSAGES

MESSAGE	HEADING
Pin number not entered... do you want to continue ?	"No pin number"
End file key missing...	"Read datalog"
Read ok	
Damaged or invalid data file	"Read datalog"
Parameters not valid	"Error save parameters"
This is a different config file	
Modem configuration missing	""
Please remove sim from modem and use puk to unlock	"Sim locked"
Modem's setup data contrasting mc's data	
Modem setup missing or data not valid!	"Modem setup error"
Sms sent ok	"Sms"
Sms sent error	"Sms"
Email sent ok	"Email"
Email sent error	"Email"
Modem date and time are different from pc date and time	Data time synchronization
Mc week day is different from pc week day	Data time synchronization
Error time synchronization.	"Data time synchronization "

TYPE OF MESSAGE	DESCRIPTION
Warning	
Warning	Datalog file corrupted or not complete. This happens when communication is interrupted or line goes off
Warning	File datalog corrupted
Error	
Information	This message appears when a different modem's configuration is loaded
Warning	
Warning	
Warning	Modem not configured, or configured to a sensor different than the coupled one of the converter
Error	Modem not configured, or configured to a sensor different than the coupled one of the converter
Information	
Error	
Information	
Error	
	Synchronise MC time with PC time
Error	

MESSAGE**HEADING**

Data roaming enabled \r\nan extra charge may be applied by the phone operator

"Data roaming enabled"

Please reset modem

"Communication error "

Error com

"Com error"

Modem configuration error

"Modem config"

TYPE OF MESSAGE	DESCRIPTION
Warning	
Warning	
Error	Select the correct COM port for communication
Error	



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