COMPUTHERM GSM158

Power socket

User manual

Thank You for purchasing the *COMPUTHERM GSM158*.

The ***COMPUTHERM GSM158*** power socket is a remote controlled socket using a Pay as you Go contract SIM. The power supply output of the socket can be turned on or off remotely by the SMS (Short Message System) command or local controlled by its function buttons. It is an intelligent power supply socket that can be controlled anytime and anywhere by users' mobile phone.

COMPUTHERM GSM158 is designed for any electrical appliance for business or family use up to 16amp output with a power consumption of up to 3KW.

When used with the removable temperature sensor ***COMPUTHERM GSM158*** can switch power on or off according to the environment temperature. It is suitable for power control of heating or refrigeration equipment by keeping the environmental temperature within a preset range or fixed temperature value.

All services and functions need to be supported by the GSM network and a SIM card.

The instruction manual provides both a quick start set up and then a more advanced operation when the user wishes to programme the socket via temperature or time/date.

CONTENTS

INFORMATION

1. Purchase a GSM SIM card (mobile phone card) from GSM network provider and insert it in the socket. This SIM card number is referred as ***COMPUTHERM GSM158*** number on this brochure.
2. The user needs to activate the PAYG SIM with credit and disable the pin code function then the ***COMPUTHERM GSM158*** is ready to programme. We recommend before choosing your network provider you check their signal strength where the socket is to be located.
3. Be sure to keep the Password and mobile number safe and we recommend you change the preset password of 1234. Do not disclose this information to anyone other than the authorized users in order to ensure no misuse.

NB: Although we recommend PAYG SIMS for easy access and set up of the ***COMPUTHERM GSM158***, contract SIMS can also be used but as we are only sending SMS messages as PAYG SIM is very cost effective.

SAFETY RECOMMENDATIONS

1. This socket was designed for business or family use for any appliance not exceeding 16amps or 3KW output.
2. Before using this socket, check if mobile phones can be used in the area.
3. This socket was designed for indoor use. Do not use it in wet, chemically aggressive or dusty environment.
4. Don't make two plugs of socket short circuit.
5. Don't touch the socket jack by any metal objects or hand.
6. Do not open the case. If faulty return to manufacturer.
7. This socket is a wireless signal transmission socket. Keep it away from electronic equipment likely to interfere with the wireless signals, in order to avoid signals interference.
8. Keep the socket and its accessories out of the children reach.
9. This socket doesn't guarantee safe power source disconnection, only functional switching of power is performed.
10. Should the ***COMPUTHERM GSM158*** not function as

detailed in this instruction book, please contact your supplier for technical support or a replacement product under warranty.

DISCLAIMER NOTICE

1. We operate on a policy of continuous development and therefore we reserve the right to make changes and improvements to any of the sockets described in this document without prior notice.
2. For the latest socket information, please check with your supplier.
3. We cannot be held responsible in any way should this product be used other than for the intended purpose.
4. We hold no responsibility for any loss of income or any special, incidental, consequential or indirect damages howsoever caused.
5. The contents of this document are provided “as is”. Except as required by applicable law, no warranties of any kind, either expressed or implied, including, but not limited to the accuracy, reliability or contents of this document. We reserve the right to revise this document or withdraw it at any time without prior notice.

CHAPTER 1

FEATURES AND ACCESSORIES

1.1 Main Functions

- This socket uses a PAYG or contract GSM SIM card.
- Remotely operate of any electric appliance connected to switched socket by SMS command.
- Remotely operate of any electric appliance connected to the micro relay output jack by SMS command.(For ***COMPUTHERM GSM158***+ only)
- Input: 110~250V/50Hz
- Output Max: 16A.
- Relay: 30A/240V relay with two working status power on/off for output outlet.
- M button: To manual control output power on/off.
- Time delayed control of output power on/off.
- Auto operation by preset schedule.
- Supplied with plug in external temperature sensor.
- Automatic operation by preset upper/lower temperature thresholds.
- Receive environmental temperature reading via simple SMS command
- Supports 1 Master and 4 additional numbers/users
- Automatic time/date synchronisation.
- SMS notification on change external power supply.

1.2 List of Contents

- 1 X ***COMPUTHERM GSM158*** controlled power socket
- 1 X External temperature sensor
- 1 X User manual

1.3 COMPUTHERM GSM158 Schematic Drawings

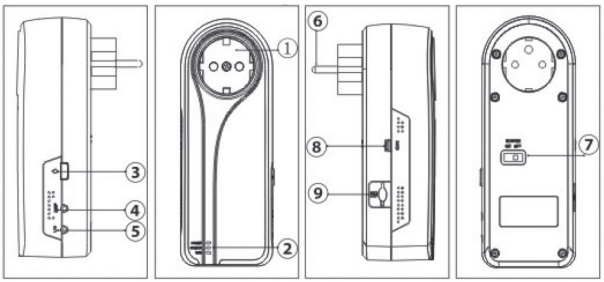

Figure1

1 – *Electrical Outlet*
2 – *Indicator light (Power, output, GSM);*
3 – *„⏻" On/Off button*
4 – *Temperature sensor port*
5 – *Output jack*
6 – *Socket plug*
7 – *Power switch*
8 – *Data port*
9 – *SIM card holder*

Output jack

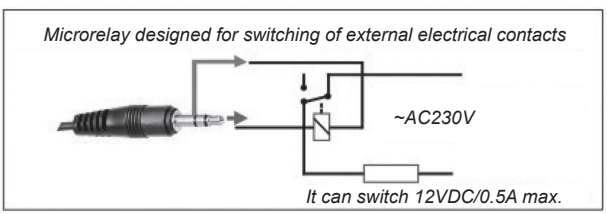

Figure2

1.4 Temperature Sensor Instruction

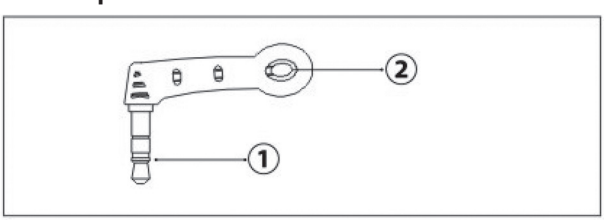

Figure3

1 – *Standard 3.5mm interface*
2 – *Temperature sensor*

INDICATOR	ACTION	STATUS
Power light (Green)	Turning off	*No power supply input*
	Constant light	*Has power supply input*
GSM light (Blue)	Turning off	*Not installed SIM card, invalid SIM card or the power switch of socket is "OFF"*
	Flash	*Be busy or searching GSM network*
	Constant light	*Successfully connected to the GSM network*
Output light (Red)	Constant light	*The socket outlet has power supply*
	Turning off	*The socket outlet cuts power supply*
"Beep" warning tone (Default turning on)	Several times	*Alarm warning*
	Long Beep	*The socket is successfully reset to its settings*

CHAPTER 2

QUICK START

2.1 Install the SIM card and temperature sensor

- Turn the power switch to "**OFF**" position.
- Insert SIM card into SIM bay and push it gently inside until you hear/feel a click, so it becomes locked inside bay.(To remove SIM from the socket, gently push the SIM inside the bay until you hear/feel a click again, card will become unlocked and now pull it out of the bay.)
- Insert the temperature sensor into the temperature port until it is seized.

2.2 GSM Power on/off

Power on:

1. Turn the power switch to "On" position (*see 7 on Figure 1*)
2. Plug the ***GSM158*** into AC power socket.

   The "**Green**" power light will illuminate and the "**Blue**" GSM light will flash for about 20 seconds before staying on constantly to confirm GSM signal available. A long "**beep**" tone can be heard (if "**beep**" warning tone is enabled).
3. Insert your electronic appliance into the ***GSM158*** electrical outlet (*see 4 on figure 1*).

4. "⏻" button (*see 4 on figure 1*) can be pressed for about 1 second to manually switch **ON** or **OFF** the socket power output. The socket is now ready to be programmed for remote use.

Power off:

1. Turn the power switch to "**off**" position. The blue light turns off.
2. The socket outlet can work as normal power socket. SMS command & "⏻" button is disabled.

Note: *The unit can be turned off by the switch (See 7 Figure 1) when not required for a period of time or by pressing the "⏻" button for 1 second (See 3 Figure 1). The GSM network signal in the socket location can affect the unit's functionality and therefore we recommend that the signal strength is tested before lugging external devices into the socket to be controlled. This can easily be done by sending an SMS to the socket first time to see the response time which will indicate signal strength in addition to a continuous blue light.*

2.3 Add a Master number to the socket

The user must edit and send the following SMS to socket via his/her mobile phone which will become the Master number in order to:

Add a Master number to the socket:
#99#SIMCardIDnumber#NewCode#

(i.e. #99#83746125#7ab2#)

Note: *new code can be 1~6 letters, or digitals or combination of them.*

♦ **Successful SMS reply**

Welcome. Registration is successful.
New Password is: 7ab2.
Time is: 2012/12/14 15:27

2.4 Socket output switching on/off

Method:

Method 1: To press "⏻" button for 1 second (*See 3 Figure 1*)

Method 2: The Master user sends following SMS message to socket in order to:

Switch ON the socket output: *#01#*

Switch OFF the socket output: *#00#*

♦ **Successful SMS reply**

Status ON/OFF
Temp: 18C
Temp control: function ON/OFF
Schedule control: function ON/OFF
Delay control: function ON/OFF

2.5 External power supply notification

Lost external power supply:

If the plug of the ***GSM158*** is disconnected from external AC power or lost of the AC power occurs, all functions of the socket are deactivated including the M button and will notify the user "**Main Electricity Supply Lost**" together with temperature reading.

The unit will notify the user "**Main electricity supply lost Temp:18C**".

Resume external power supply:

If the AC power of the ***GSM158*** is available again, the SMS notification will be sent to the user "**Main Electricity Supply Restored, Status: ON/OFF Temp:18C**".

When the external power supply is resumed, the output of ***GSM158*** will keep the same status as that of before the external power supply failure if the power switch of the ***GSM158*** is not turned off. For example, if the output is switched on before the external power supply cut off, the output will be switched on when the external power supply is resumed. If the power supply is switched on and off frequently, ***GSM158*** will send reminding SMS.

CHAPTER 3

ADVANCED SETTINGS

3.1 Define the users

3.1.1 User authorization level

All the settings of ***GSM158*** can be set or adjusted via a SMS command.

There are two mobile phone user controlling levels.

Master User:

Only on Master user has authorization to use all features of ***GSM158***.

In order to enable all the functions on the socket, the Master user must store his/her mobile number in the socket's memory. Only one Master's mobile number (Master number) is allowed for a socket.

Family User:

There are four Additional users have authorization to use all the functions of ***GSM158*** except defining the users including add/delete users, change password, and SMS alerts, notification.

3.1.2 About the SMS Command

- The password must be 6 letters, or digitals, or combination of them.
- The original password is 1234.
- The limit of digits that are allowed for the phone number is three to sixteen.
- ***GSM158*** will reply to the user after it receives the SMS command.

Note:

- *The # symbol must NOT be ignored when typing an SMS command.*
- *No allow any space within the commands.*

3.1.3 Add a master number to the socket

Description:

If ***GSM158*** is being used for the first time, or ***GSM158*** has been reset to factory settings, the Master user's number must be programmed into the socket.

Method:

The user must edit and send the following SMS to socket via his/her mobile phone (the phone number will be the Master number) in order to:

Add a master number to the socket:
#99#SIMCardIDnumber#Code#

♦ **Successful SMS reply**

Welcome. Registration is successful.
New Password is: 1234
Time is: 2012/12/14 15:27

◊ **Failed SMS reply**

If a user tries to add another Master user again, ***GSM158*** will send a notification via SMS stating *"The master user already exists"*. You should change the Master number (*Refer to Chapter 3.1.4*).

3.1.4 Change the master number

Method:

Method 1: The Master user sends following SMS message in order to:

Change the master user's number:
#14#Newphone#oldphone#code#

Method 2: The user reset ***GSM158*** to factory settings to remove old Master number before setting the new one (*Refer to Chapter 3.8*).

♦ **Successful SMS reply**

New master number set successfully.
Master number: 13456007800.
Password: 56egy8.

Successful SMS reply will be sent to the new Master user. Then the old Master user's number will not be able to control ***GSM158*** anymore.

3.1.5 Add family number

Up to 4 Additional user's number can be stored on one socket.

Additional users have the authority to use all the functions except adding/deleting users, change password.

Method:

The Master user sends following SMS message in order to:

Add a family number:
#06#FamilyNumber#code#
(i.e.: #06#13566537908#56egy8)

♦ **Successful SMS reply**

Family number xxxxxxxxx set successfully.

Add several family numbers:
#06#Family Number1# ...# Family Number4#code#

Additional Number should be the Additional user's mobile phone number.

♦ **Successful SMS reply**

Family number xxxxxxxxx, xxxxxxxxx, xxxxxxxxx set successfully.

3.1.6 Check Additional user's number

Refer to *Chapter 3.7* Check status.

3.1.7 Delete Family number

Method:

The Master user sends following SMS message in order to:

Delete a family number:
#113#family number#code# (6)

Delete several family numbers simultaneously:
#113#family number1# ...# family number 4#code# (7)

Delete all Additional numbers:
#113#code# (8)

♦ **Successful SMS reply**

Family number xxxxxxx has been deleted.

◊ **Failed SMS reply**

Phone xxxxxx does not exist.

3.2 Switching on/off the socket output manually

Description:

When the socket output is switching on, ***GSM158*** offers power supply for electronic appliance which being connected with it; the red indicator light is constant turning on. Otherwise L158has no power supply for electronic appliance and the red light is turning off.

Note:

If the socket output status is changed manually (including pressing the M button, sending SMS or making phone call), the preset timing, delaying or temperature control f the socket will be invalid automatically with a SMS notification, but the setting time range and temperature range parameters will be saved until ***GSM158*** *is reset to factory settings.*

3.2.1 Switching on/off by SMS

Method:

The user sends following SMS message in order to:

Switch on the socket output manually:
#01#

Cut off the socket output manually:
#00#

♦ **Successful SMS reply**

Status ON/OFF
Temp: 27C
Temp control: function ON/OFF
Schedule control: function ON/OFF
Delay control: function ON/OFF

3.2.2 Switching on/off by "⏻" Button

Keep press "⏻" button on the ***GSM158*** for one second. The red light will indicate the output changes and the SMS reply is same with *Chapter 3.2.1*.

3.2.3 Switching on/off by calling

Description:

If the Master user calls ***GSM158***, the socket output will be switched on or cut off automatically when the user hears the ring tone in the phone. The calling will be hung up automatically if the user doesn't hang up the call.

This function is default activated.

Method:

The user sends following SMS message in order to:

Enable switching on/off the output by calling (Default):
#18#1#

Disable switching on/off the output by calling:
#18#0#

♦ **Successful SMS reply**

Control the socket power output status by calling activated/ deactivated.

3.2.4 Switching on/off auxiliary output

Description:

The 3.5mm port for auxiliary output can connect to any device up to 12VDC, 0.5A max.

Note:

Please respect maximum rating of the auxiliary microrelay output-12VDC, 0.5A. Don't overload the socket, as this may damage or shorten life span of the internal switching relays, which is not covered by warranty. It's recommended to use external power relays/contactors in case of higher current is required and/or capacitive/inductive load with high startup current needs to switched.

Method:

The user sends following SMS message in order to:

Switch on the auxiliary output:
#11#1#

Switch off the auxiliary output:
#11#0#

♦ **Successful SMS reply**

Auxiliary output: ON/OFF.

3.3 Delayed-switch on/off the socket output

Description:

The output of ***GSM158*** can be set to delay switch on or cut off for a period with SMS commands.

The "delayed switch on/off the socket" function will be invalid when the GSM indicator light is not constant lights; that means, if the external power of ***GSM158*** is cut off or SIM card cannot work normally, "delayed switch on/ off the socket" function is invalid, so for unstable power-supply area, it is not suggested to use this function.

Method:

The user sends following SMS message in order to:

Delay switching on the output after a certain minutes:
#138#1 Minutes#

Delay switching off the output after a certain minutes:
#138#0#Minutes# (16)

Minutes are time parameters, its range is 1-720.

♦ **Successful SMS reply**

Status: ON/OFF
Delay control: function ON
*The switch will open/close after ** minutes!*

When the time expire, the socket will send you SMS *"Time is expired, the switch is open/close."*

3.4 Timed switching on the socket output

3.4.1 Enable timing switching on the output

Description:

The output of ***GSM158*** can be set to switch on for a period like every Monday, or every day or every Monday to Friday, etc.

Method:

The user sends following SMS message in order to:

Enable timing switch on/off the output:
#128#01# (17)

♦ **Successful SMS reply**

Temp control: function ON/OFF
Delay control: function ON/OFF
Schedule control: function ON
Workday, Startime-Endtime

3.4.2 Set time period to switch on and off the output

Description:

After successful setting of time period to switch on the socket output, the schedule parameter will be saved on the socket until ***GSM158*** is reset to factory settings, no matter if the external power supply is cut off or the power switch is turned off. But the "timed switch on the output" feature is applied only when command 17 be set.

Method:

The user sends following SMS message in order to:

Set time period to switch on and off the output:
#128#WorkDay#StartTime#EndTime#

Set time to switch on the output:
#128#WorkDay#StartTime#0#

Set time to cut off the output:
#128#WorkDay#0#EndTime#

WorkDay: one digit, the values lie in the range of "0" to "8". The following table contains the descriptions of each value.

0 - Monday to Friday
1 - Monday
2 - Tuesday
3 - Wednesday
4 - Thursday
5 - Friday
6 - Saturday
7 - Sunday
8 - Everyday

StartTime and EndTime: consists of 4 digits (hh:mm) and works on a 24 hour clock. If the EndTime is later than StartTime, the period is in the same day. If the EndTime is earlier than StartTime, the EndTime is on next day.

The socket output will switch on at the StartTime and cut off at the EndTime.

For example:

#128#0#0000#2130#
This means the socket will open on 00:00 and close on 21:30 every Monday to Friday.

#128#0#2130#0000#
This means the socket will open on 21:30 and close on next day 00:00 every Monday to Friday.

#128#1#0900#0#
This means the socket will open on 09:00 every Monday.

#128#5#0#1800#
This means the socket will close on 18:00 every Friday.

♦ **Successful SMS reply**

Temp control: function ON/OFF
Delay control: function ON/OFF
Schedule control: function ON
Monday to Friday, 00:00-21:30

3.4.3 Disable timing switching on the output

Method:

The user sends following SMS message in order to:

Disable timing switch on/off the output:
#128#00#

♦ **Successful SMS reply**

Temp control: function ON/OFF
Delay control: function ON/OFF
Schedule control: function OFF
Workday, Startime-Endtime

3.5 Auto-control the socket output by temperature

3.5.1 Enable auto-controlled by temperature

Description:

The external temperature sensor must be inserted into the TEMP port of ***GSM158***. The output status of the socket can be controlled by the environmental temperature automatically.

For example: GSM158 *is used for the power control of the heating apparatus. Please check the other function status(delay control and schedule control) to make sure they are OFF in case the outlet output changes during the temperature controlling time.*

Method:

The user sends following SMS message in order to:

Enable auto-control the output by temperature:
#159#01#

♦ **Successful SMS reply**

Status ON/OFF
Delay control: function ON/OFF
Schedule control: function ON/FF
Temp control: ON
Temp: 25C
Mode: Heating/Cooling
Range: LowTemp-HighTemp

The ***GSM158*** will switching on or cut off the output automatically according to the temperature range setting.

3.5.2 Set temperature range to switch on/off the output

Description:

After successful setting of temperature range, the temperature parameter will be saved on the socket until ***GSM158*** is reset to factory settings, no matter if the external power supply is cut off or the power switch is

turned off. But the “Auto-controlled by temperature” feature is applied only when command 20 is set.

Method:

The user sends following SMS message in order to:

Set temperature to switch on/off the output:
#159#Mode#LowTemp#HighTemp#

Mode is the control selection:

For coldness, mode=0. For warmness, mode=1.

Temp means temperature value, the range is –10C to 49C.

Temperature unit is degree Celsius.

Example 1: *set commands: #159#0#20#30# when the environmental temperature is 35 degrees (above the limitation of 30 degrees in the command) the socket output will be on, cooling apparatus starts working; when the environmental temperature is 18 degrees (below the limitation of 20 degrees in the command), the socket output will be off, heating apparatus stops working.*

Example 2: *set commands: #159#1#10#20# when the environmental temperature is 5 degrees (below the limitation of 10 degrees in the command), the socket output will be on, heating apparatus starts working; when the environmental temperature is 24 degrees (above the limitation of 20 degrees in the command), the socket output will be off, cooling apparatus stops working.*

3.5.3 Disable auto-controlled by temperature

Method:

The user sends following SMS message in order to:

Disable auto-control the output by temperature:
#159#00# (22)

♦ **Successful SMS reply**

Status ON/OFF
Delay control: function ON/OFF
Schedule control: function ON/FF
Temp control: OFF
Temp: 25C
Mode: Heating/Cooling
Range: Low Temp-HighTemp

3.6 Auto-control the socket output by temperature

3.6.1 Over-temperature alarm

Description:

The socket will auto-send the SMS alarm message to master user and "Beep" if the surrounding temperature is detected out in the pre-set temperature range or out of the pre-set temperature range.

Method:

The user sends following SMS message in order to:

Enable over-temperature alarm:
#170#01#

Set in range alarm temperature limit:
#170#1#LowTemp#HighTemp#

Set out of range alarm temperature limit:
#170#0#LowTemp#HighTemp#

Disable over-temperature alarm:
#170#01#

♦ **Successful SMS reply**

Temperature alert: function ON
Temp: 25C
Mode: In range/Out of range
Min Temp:10C
Max Temp:20C

Mode is the control selection:

For alarm in pre-set temperature range, mode=1. For alarm out of pre-set temperature range, mode=0.

Temp means temperature value, the range is –10C to 49C.

Temperature unit is degree Celsius.

Example 1: *set commands: #170#1#20#30# when the environmental temperature is 21 degrees (in the range of 20-30C in the command) the socket will send SMS alerts to master user and "beep" until you disable the function.*

Example 2: *set commands: #170#0#20#30# when the environmental temperature is 11 degrees (out of range of 20-30 in the command) the socket will send SMS alerts to master user and "beep" until you disable the function.*

3.6.2 Temperature rapid changing alarm

Description:

A time period value and temperature changing value can be preset. If the surrounding temperature changes to the preset value within the preset time period, a SMS alert message will be auto-sent to master user's mobile phone. This feature depends on the temperature sensor and settings.

Method:

The user sends following SMS message in order to:

Enable rapid changing temperature alarm:
#160#1#

Set time period and temperature changing value:
#160#Temp#Time#

Disable rapid changing temperature alarm:
#160#0#

Temp: The values lies in the range from 1-60 centigrade degree.

Time: The values lies in the range from 1-30 minutes.

Please set up the temp and time value when you use the function at first time.

The sensor will detect the temperature every 6 second. Once the temperature changes rapidly, the socket will auto send the SMS alerts to master user every minute and it "beep" until you disable it.

♦ **Successful SMS reply**

Temperature rapid changing: function ON
Delta: 4C
Time: 2minutes

3.7 SMS notification upon the socket output changing

Description:

GSM158 will default notify the user when the socket output changing. A SMS notification will be sent. The Master user can enable/disable this SMS notification.

Method:

The user sends following SMS message in order to:

SMS notification upon the socket output changing (Default):
#130#1#

No SMS notification upon the socket output changing:
#130#0# (24)

♦ **Successful SMS reply**

SMS notification upon the socket output changing manually. NO SMS notification upon the socket output changing manually.

3.8 SMS notification upon power supply changing

Description:

GSM158 will default notify the user when the power supply changing.

For example:

Main electricity supply lost!
Temp: 24C

or

Main electricity supply restore!
Status: ON/OFF
Temp:24C

The Master user can enable/disable the function of notifying user when the power supply changes by sending SMS:

Enable the function of notifying:
#12#1#

Disable the function of notifying:
#12#0#

♦ **Successful SMS reply**

SMS notification upon the socket output changing manually. NO SMS notification upon the socket output changing manually.

3.9 "Beep" warning tone

Method:

The master user sends following SMS command in order to:

Enable the "Beep" warning tone (Default):
#19#1#

Disable the "Beep" warning tone:
#19#0#

♦ **Successful SMS reply**

Beep alarm activated/de-activated.

3.10 "Check status

Method:

The master user sends following SMS command in order to:

Check socket operating status:
#07# (25)

After receiving the SMS commands, ***GSM158*** will reply one SMS message of socket status checking.

For example:

Number: xxxxxxxxx
Status: ON/OFF
Temp:20C
Temp control: function ON/OFF
Delay control: function ON/OFF
Schedule control: function ON/OFF
Time: 2013/01/22-10:26:36

Check socket output status:
#000# (26)

After receiving the SMS commands, ***GSM158*** will reply one SMS message of socket output status.

For example:

Status: ON/OFF
*Temp:**C*

Check auxiliary output:
#09# (26)

Auxiliary output: ON/OFF

Check "delayed switch on/off the socket" parameters:
#138# (27)

After receiving the SMS commands, ***GSM158*** will reply one SMS message of "Delayed switch on/off socket" parameters checking.

For example:

The socket output delay control is de-activated.
*The socket power output is cut off now, will switch on after ** minutes.*

Check "timed switch on the socket" parameters:
#128# (28)

After receiving the SMS commands, ***GSM158*** will reply one SMS message of "Timed switch on the socket" parameters.

For example:

Temp control: function ON/OFF
Delay control: function ON/OFF
Schedule control: function ON/OFF
WorkDay, StartTime-EndTime.

Check "temperature control" parameters:
#159# (29)

After receiving the SMS commands, ***GSM158*** will reply one SMS message of temperature parameters checking.

For example:

Status: ON/OFF
Temp control:function ON/OFF
Delay control:function ON/OFF
Schedule control:function ON/OFF
*Temp: **C*
Mode: Heating/Cooling
Range: LowTemp ~ HighTemp

Check "Temperature rapid-changing" parameters:
#160#

After receiving the SMS commands, ***GSM158*** will reply one SMS message of temperature parameters checking.

For example:

Temperature rapid changing: function ON/OFF
*Delta: *C*
*Time: * minutes*

Check "Over temperature alarm" parameters:
#170#

After receiving the SMS commands, ***GSM158*** will reply one SMS message of temperature parameters checking.

For example:

Temperature alert: function ON/OFF
*Temp: **C*
Mode: In range/ out of range
*Min Temp.: **C*
*Max Temp.: **C*

3.11 Resetting the socket

Method:

Method 1: Press the side "⏻" button of the device for 15 seconds until you hear the long "beep" sound.

Method 2: The Master user sends following SMS message to ***GSM158*** in order to.

Reset the socket:
#08#

♦ **Successful SMS reply**

Reset the socket to factory setting successfully.

A long "Beep" tone will be heard and it means resetting the socket successful.

CHAPTER 4

MAINTENANCE

If the socket is out of use for long time, it should be switched into powered off mode and disconnected from the main supply socket.

Store and/or use the remote socket responsibly.

To maintain the integrity of the L158 do not store or use in areas where there is very high humidity. Do not allow water or other liquids into the socket otherwise it might cause a malfunction.

Do not store and use the socket in dusty environment.

Do not use alcohol, acetone and other similar solvents to clean it.

Wipe with a soft wet cloth.

Do not attempt to programme it except as instructed. If the socket does not work normally, try to resolve it as the guide "general troubleshooting", if the problem cannot be solved, contact your supplier immediately.

CHAPTER 5
TROUBLESHOOTING

NO.	GENERAL TROUBLE	POSSIBLE REASON	SOLUTION
1	Power indicator light turns off	No power input	Check the socket external AC power is available
2	GSM indicator light turns off	Can't find or identify the SIM card	SIM card not installed properly
		The power switch is OFF	Set power to ON mode
3	Socket output cannot be changed by "⏻" button	No power input	Check **GSM 158** external AC power is available
		The power switch is OFF	Set power to ON mode
4	All functions disable but all indicator lights is working	Caller ID presentation is not active	Activate caller ID
		Insufficient fee of the SIM card	Check your account
		SIM card PIN code is set to ON mode	Set SIM card PIN code into off mode
5	Socket didn't respond to any operation	**GSM 158** wok abnormally	Switch off the power, check SIM card or reset factory setting
6	After power on the socket, GSM indicator keeps flashing	Network signal weak or network busy	If mobile phone's signal is weak too, place the socket at other place with strong signal and try again
		SIM card PIN code is active	Deactive the SIM card PIN code
		SIM card invalid	Contact your respoinsible telecom company
7	The Master number already exists	Other Master is already set in the socket	Change Master number or recover to factory default setting
8	SMS: "Invalid format. Please check and try again."	Invalid command	Refer to the user manual
9	SMS: "No authorization user"	Wrong user settings	Use the Master mobile phone to try the command again

CHAPTER 6

MAIN TECHNICAL PARAMETERS

- **Input power socket***:* 110-250V/50Hz,CEE 7/7 Schuko plug
- **Output power socket relay:** 110-250V/50Hz,230V/30A(30s), 15A long term
- **Store temperature:** -10°C - +49°C
- **Relative humidity:** -20°C - +60°C
- **Relative humidity:** 10-90% without condensation
- **Data interface:** GSM SIM 1.8V/3.0V socket
- **External temperature sensor:** -10°C - +50°C
- **GSM working band:** DCS1800, PCS1900, GSM850, EGSM900

CHAPTER 7

SMS COMMANDS LIST

CATEGORY	FUNCTION	COMMAND	NO.
Define the users	*Add a Master number to the socket*	**#99#phone#code#**	**1**
	Change master password	**#04#oldpassword#newpassword#**	**2**
	Change the Master user's number	**#14#Newphone#oldphone#code#**	**3**
	Add a Additional number	**#06#FamilyNumber#code#**	**4**
	Add several Additional numbers	**#06#Additional Number1#... #Additional Number4#code#**	**5**
	Delete a Additional number	**#113#FamilyNumber#code#**	**6**
	Delete several Additional numbers simultaneously	**#113#Additional Number1#... #Additional Number4#code#**	**7**
	Delete all Additional numbers	**#113#code#**	**8**
Switching on/off output	*Switch on the socket output (manually)*	**#01#**	**9**
	Switch off the socket output (manually)	**#00#**	**10**
	Enable switching on/off the output by calling	**#18#1#**	**11**
	Disable switching on/off the output by calling (Default)	**#18#0#**	**12**

CATEGORY	FUNCTION	COMMAND	NO.
Switching on/off auxiliary output	*Switch on the auxiliary output*	#11#1#	13
	Switch off the auxiliary output	#11#0#	14
Delay control	*Delay switching on the output after a certain minutes*	#138#1#Minutes#	15
	Delay switching off the output after a certain minutes	#138#0#Minutes#	16
	Disable the delay control	#138#0#0#	17
Schedule control	*Enable timing switch on the output*	#128#01#	18
	Set time period to switch on and off the output	#128#WorkDay#StartTime#EndTime#	19
	Set time period to switch on the output	#128#WorkDay#StartTime#0#	20
	Set time period to switch off the output	#128#WorkDay#0#EndTime#	21
	Disable timing switch on the output	#128#00#	22
Temperature control	*Enable auto-command the output by temperature*	#159#01#	23
	Set temperature range to switch on/off the output	#159#mode#MinTemp#MaxTemp#	24
	Disable auto-control the output by temperature	#159#00#	25
Over temperature control	*Enable the over temperature alarm*	#170#01#	26
	Set limit of temperature	#170#0#LowTemp#HighTemp#	27
	Set limit of temperature	#170#1#LowTemp#HighTemp#	28
	Disable the over-temperature alarm	#170#00#	29
Temperature rapid changing alarm	*Enable the temperature rapid changing alarm*	#160#1#	30
	Set time period and temperature changing value	#160#Temp#Time#	31
	Disable the temperature rapid changing alarm	#160#0#	32

CATEGORY	FUNCTION	COMMAND	NO.
SMS Notification	*SMS notification upon the socket output changing (Default)*	#130#1#	33
	No SMS notification upon the socket output changing	#130#0#	34
	SMS notification upon the power supply changing (Default)	#12#1#	35
	No SMS notification upon the power supply changing	#12#0#	36
"Beep" warning tone	*Enable the "Beep" warning tone (Default)*	#19#1#	37
	Disable the "Beep" warning tone	#19#0#	38
Check Status	*Check socket operating status*	#07#	39
	Check socket output status	#000#	40
	Check auxiliary output status	#06#	41
	Check "Delayed switch on/off the socket" parameters	#138#	42
	Check "Timed switch on the socket" parameters	#128#	43
	Check "Temperature contorl" parameters	#159#	44
	Check "Temperature rapid-changing" parameters	#160#	45
	Check "over-Temperature alarm" parameters	#170#	46
Reset to factory settings	*Reset the socket*	#08#	47

The ***COMPUTHERM GSM 158*** type GSM-controlled socket complies with the requirements of standards EU EMC 2004/108/EC; LVD 2006/95/EC; R&TTE 1999/5/EC and RoHS 2011/65/EU.

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