

M2M, IoT, IwT, IoE... ?

Mobi.Control

MORE CONTROL
LESS MONEY

CONTRIVE



M2M IS SOMETHING EXISTING FROM A LONG TIME
THE FIRST TELEMETRY SYSTEMS WERE RESERVED TO A FEW LARGE ENTITIES

THROUGH THE INTERNET
TODAY WE CAN REACH



ANYONE



ANYTHING



ANYTIME



ANYWHERE



HOW THIS
EVOLUTION CAN BE
DEFINED ?

M2M
MACHINE TO MACHINE
MAN TO MACHINE

IoT
INTERNET OF THINGS

IoT
INTERNET WITH THINGS

IoE
INTERNET OF EVERYTHING

EVOLVING OUR
GSM REMOTE CONTROL DEVICES
WE TRIED TO

REMOVE COMPLEXITY

WITHOUT LIMITING DEVICES PERFORMANCE

SIMPLIFY THE INSTALLATION

WITHOUT HAVING A MERE PLUG & PLAY SYSTEM

REACH THE INTERNET

WITHOUT INCREASING BUY & MANAGEMENT COSTS

THAT'S WHY
NEW MOBI FAMILY DEVICES
CAN DO MANY THINGS, BUT...

YOU DON'T NEED TO USE ALL THE FEATURES
OR ANY OF THEM, FOR THAT MATTER

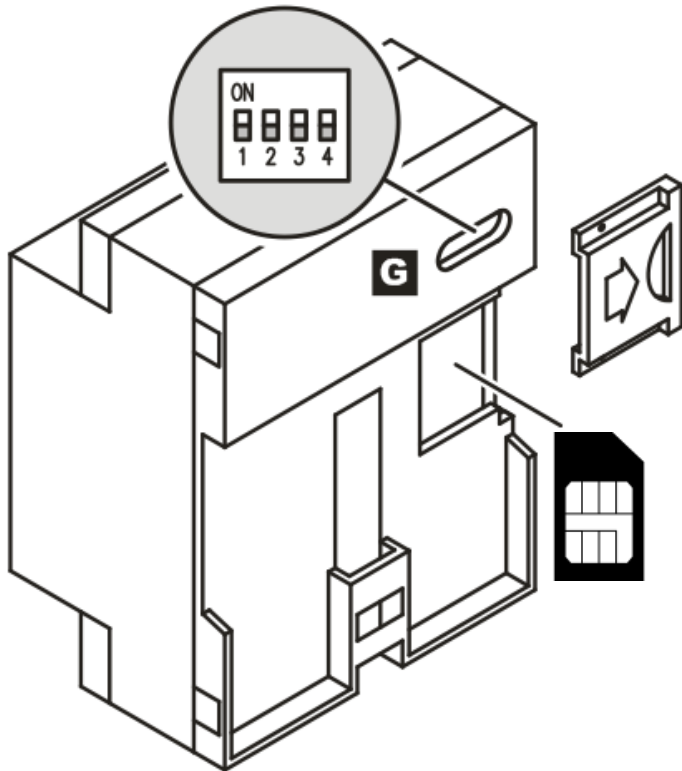
SET UP THE FUNCTIONS YOU NEED
BUT IT IS GREAT TO HAVE THEM WHEN YOU NEED THEM

EXPAND THE USAGE OVER TIME
YOU CAN ADD NEW SERVICES AS YOU GO

INSERT SIM CARD BEFORE TO
INSTALL THE PRODUCT

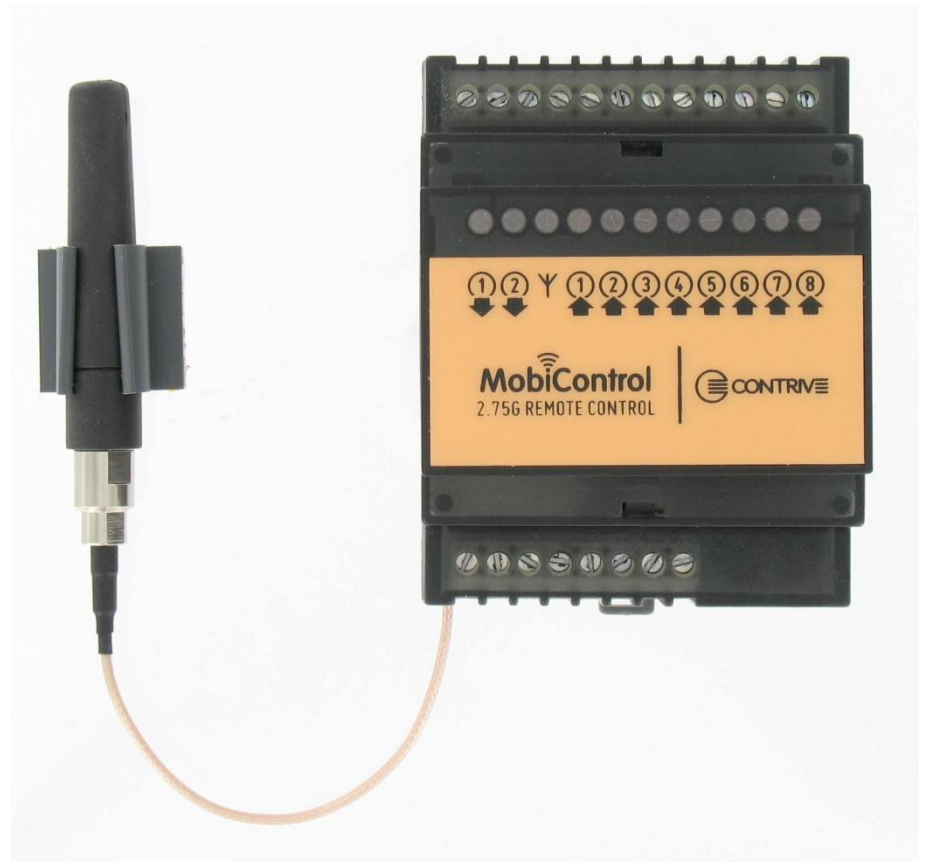
SELECT ANALOG INPUTS MODE
(DIPSWITCH G)

Mobi.Switch AND Mobi.Control ONLY



CONNECT THE ANTENNA TO
THE FME CONNECTOR

BELOW YOU CAN SEE
A COMPACT SOLUTION



2 RELAY OUTPUTS

3A / 250V_{Ac}

1 MULTIFUNCTION INPUT

DIGITAL

TIME COUNTER

PULSE COUNTER

- POWER SUPPLY

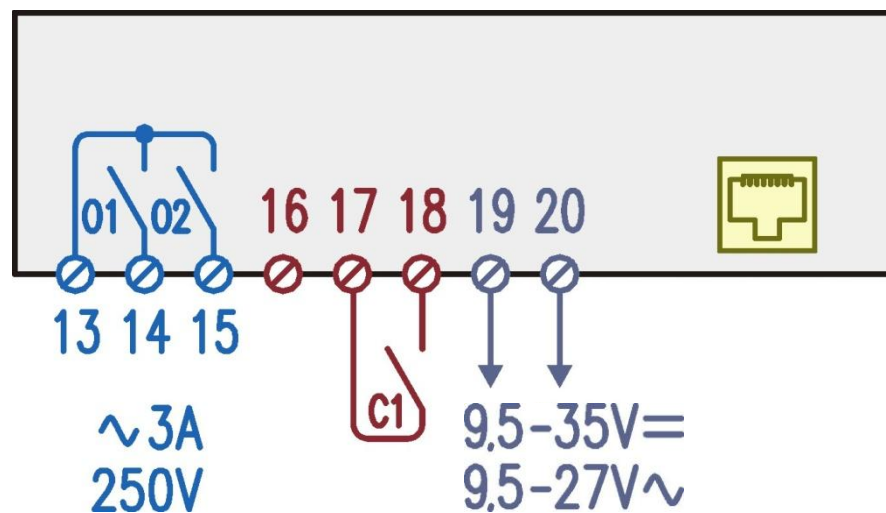
9,5 ... 27 V_{Ac} / 9,5 ... 35 V_{Dc}

- RJ CONNECTOR

COMMUNICATION PORT

5V_{Dc} POWER SUPPLY

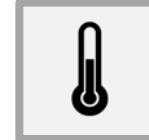
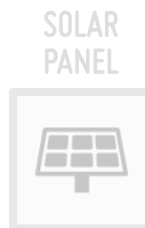
LOUDSPEAKER



Mobi.Key

USE IT QUICKLY !

- INSERT SIM CARD
- PROVIDE 12...24V_{AC/DC} POWER SUPPLY
- SEND AN SMS :
PASSWORD AND ONE OR MORE COMMANDS (UP TO 5)



RELAY

CONTACT

PULSE

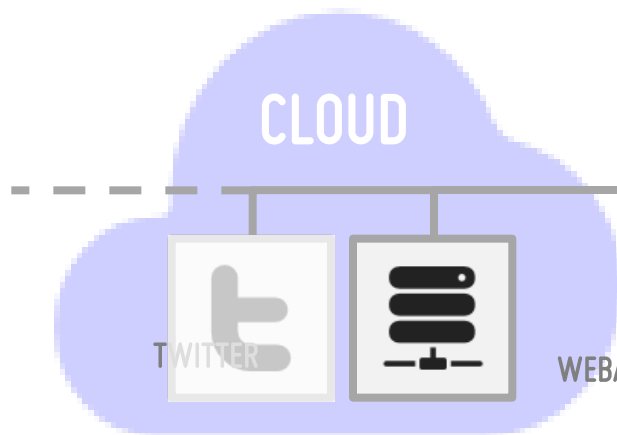
TIME

ANALOG

TEMP

BATT

MAIN



WEBADMIN OPERATOR

0000 OUT1=1



EMAIL



TABLET



PC



VOICE



CALL



SMS



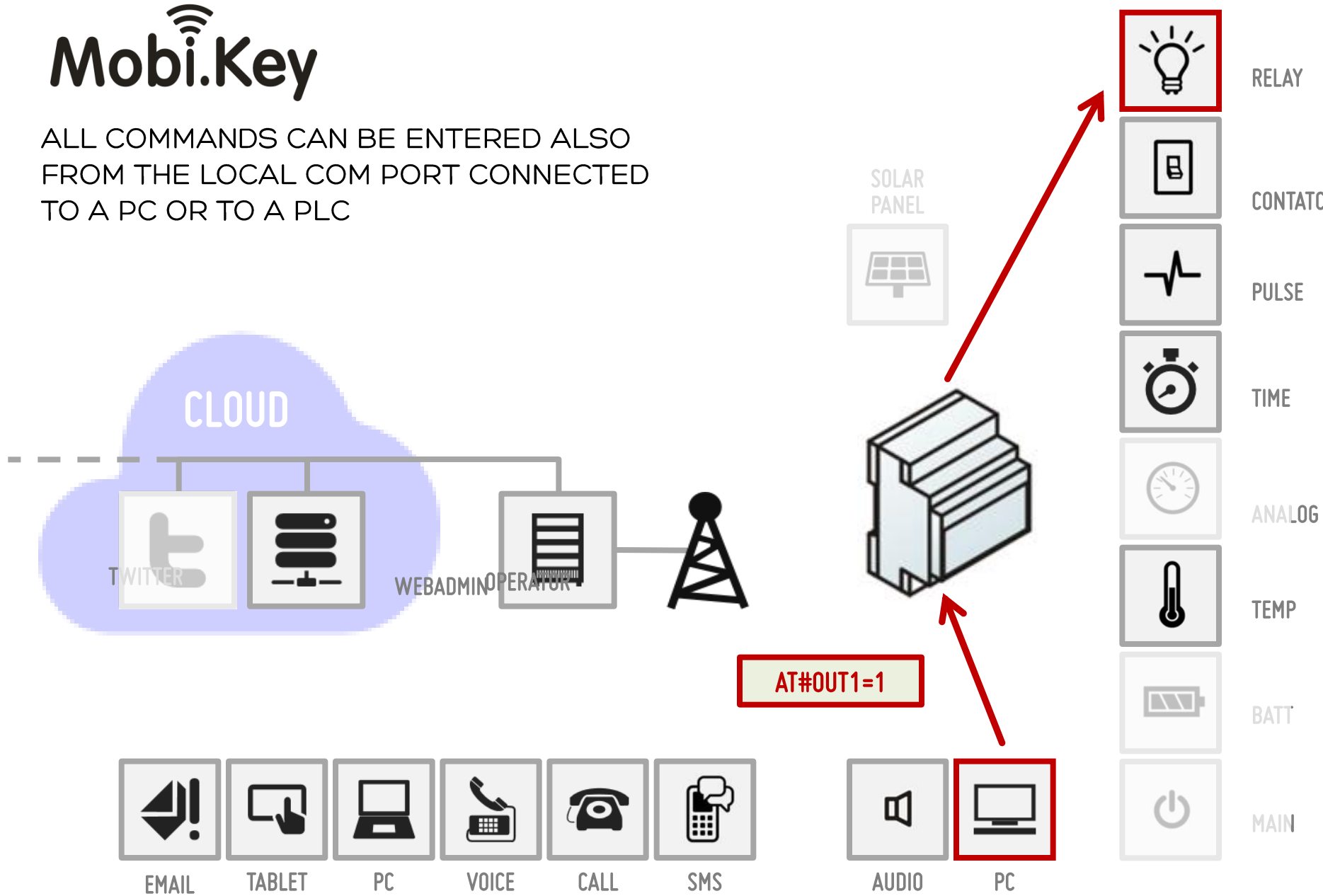
AUDIO



PC

Mobi.Key

ALL COMMANDS CAN BE ENTERED ALSO FROM THE LOCAL COM PORT CONNECTED TO A PC OR TO A PLC



Mobi.Key

ADD USERS THAT WILL :

- ACTIVATE OUTPUTS BY MEANS OF FREE CALLS
- CONTROL BY MEANS OF SHORTCUT COMMANDS

IF YOU WANT YOU CAN ALSO DEFINE :

- START OF ENABLING PERIOD
- EXPIRY OF ENABLING PERIOD
- ALLOWED OPERATIONS (TICKETS)

THESE CONFIGURATIONS CAN BE MADE THROUGH LOCAL COM PORT CONNECTED TO A PC RUNNING OUR FREE TOOL

Mobi.Suite

BY MEANS OF ONLINE CONFIGURATION AND CONTROL PANEL

www.webadmin.mobi

... LATER WE'LL SEE HOW TO ENABLE IT

User Name	<input type="text" value="John Doe"/>	
Phone Number	<input type="text" value="+44123123123"/>	
Recognized address on incoming emails	<input type="text" value="john@doe.com"/>	
Twitter ID	<input type="text" value="johndoe"/>	
Start	<input type="text" value="30/10/2013 08:00"/>	SMS <input type="checkbox"/>
Expiry	<input type="text" value="25/10/2013 17:45"/>	SMS <input type="checkbox"/>
Tickets	<input type="text" value="250"/>	SMS <input type="checkbox"/>

Mobi.Key

YOU CAN ASSIGN A USER TO ONE OF TWO AVAILABLE GROUPS :

- GROUP 1 (STORED INTO THE SIM CARD)
100 250 500 999 USERS, DEPENDING ON THE SIM CARD
- GROUP 2 (STORED WITHIN THE DEVICE)
UP TO 400 USERS

YOU CAN DISABLE A GROUP WITH THE COMMAND

- STOP1 / STOP2

AND OF COURSE REENABLE

- START1 / START2

YOU CAN ALSO CONFIGURE THE DEVICE TO ACCEPT COMMANDS ONLY ON CERTAIN DAYS OF THE WEEK AND SPECIFIC HOURS

USERS 2

ALLOW Remote Commands

Enable on daily basis

Mo Tu We Th Fr Sa Su

Enable at Disable at

Trace text



DEFINE THE ACTION TO BE CARRIED OUT AT THE INCOMING CALL TO AN ACTIVE USER :

- NO ACTION
THE CALL WILL BE TERMINATED IMMEDIATELY
- SWITCH ON OUTPUT
FOR A TIME FROM 1 TO 300 seconds
- TOGGLE OUTPUT
TURN OFF WHILE ON, TURN ON WHILE OFF
- SEQUENCE
OUTPUT 1 + PAUSE + OUTPUT 2 (ADJUSTABLE TIME)
- ANSWER
AND ACCEPTS KEYPAD COMMANDS (DTMF)

YOU MAY ALSO WANT A CONFIRMATION :

- NONE
- CALL
- CALL ONLY IF OUTPUT HAS BEEN TURNED ON
- SEND A STATUS SMS

INCOMING CALLS

Behaviour on incoming calls

ANSWER

Time to answer [sec]

7

Feedback

CALL ON TOGGLE ON

Trace text

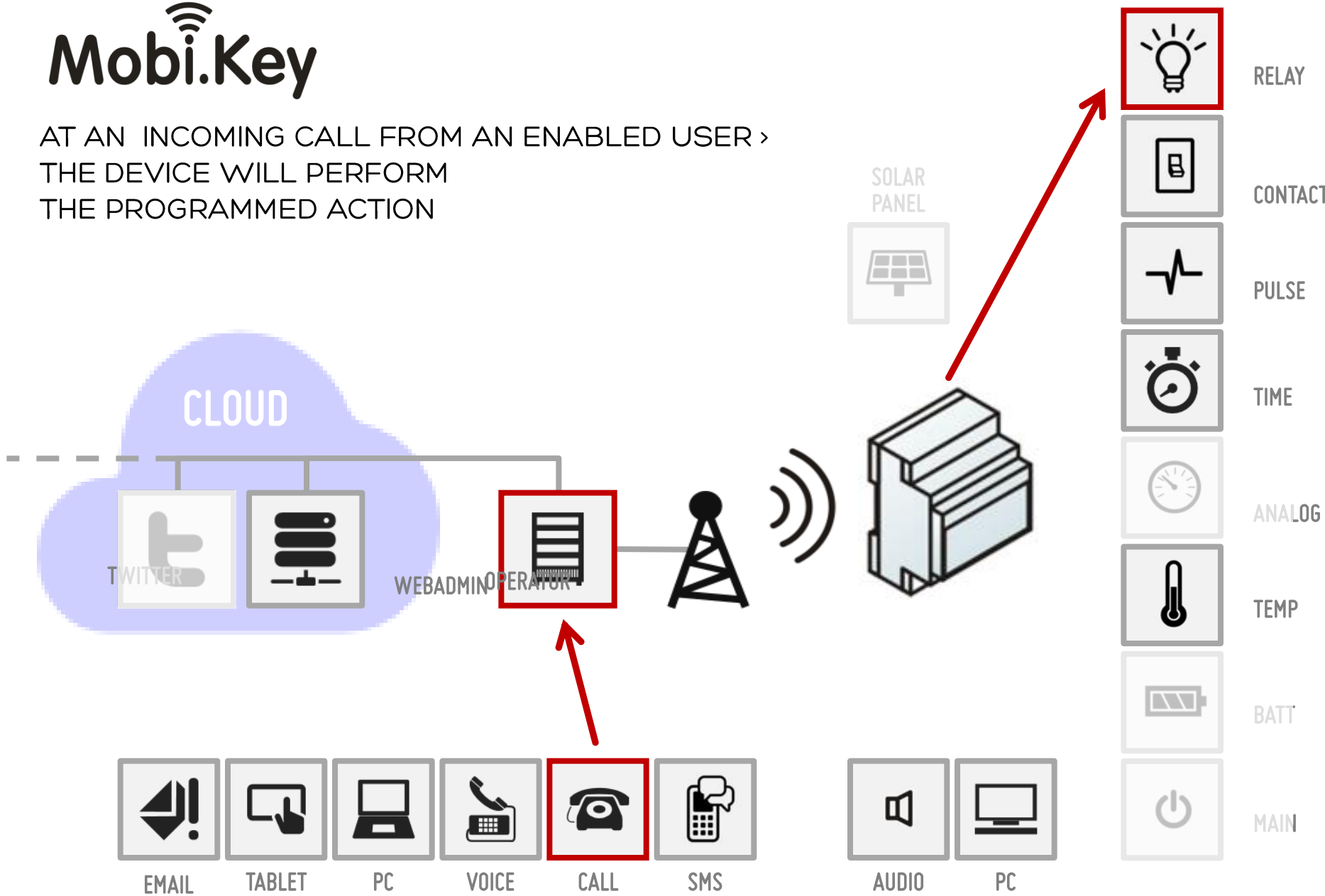
CALL FROM

INCOMING 'VOICE' CALL
WORKS ON OUTPUT 1

INCOMING 'DATA' CALL
WORKS ON OUTPUT 2

Mobi.Key

AT AN INCOMING CALL FROM AN ENABLED USER >
THE DEVICE WILL PERFORM
THE PROGRAMMED ACTION



Mobi.Key

SET SHORTCUT COMMANDS ALLOWED TO
ENABLED USERS WITHOUT NEED TO ENTER
THE PASSWORD

CHOOSE THE WORD THAT WILL BE RECOGNIZED

YOU CAN ALSO DEFINE A KEY TO PERFORM THE
SAME FUNCTION DURING AN ACTIVE CALL

SPECIFY UP TO 5 COMMANDS TO BE CARRIED OUT
WHEN THE SHORTCUT COMMAND IS RECEIVED

ENTER THEM EXACTLY YOU WOULD DO BY
SENDING AN SMS

UNRECOGNIZED COMMANDS WILL BE IGNORED

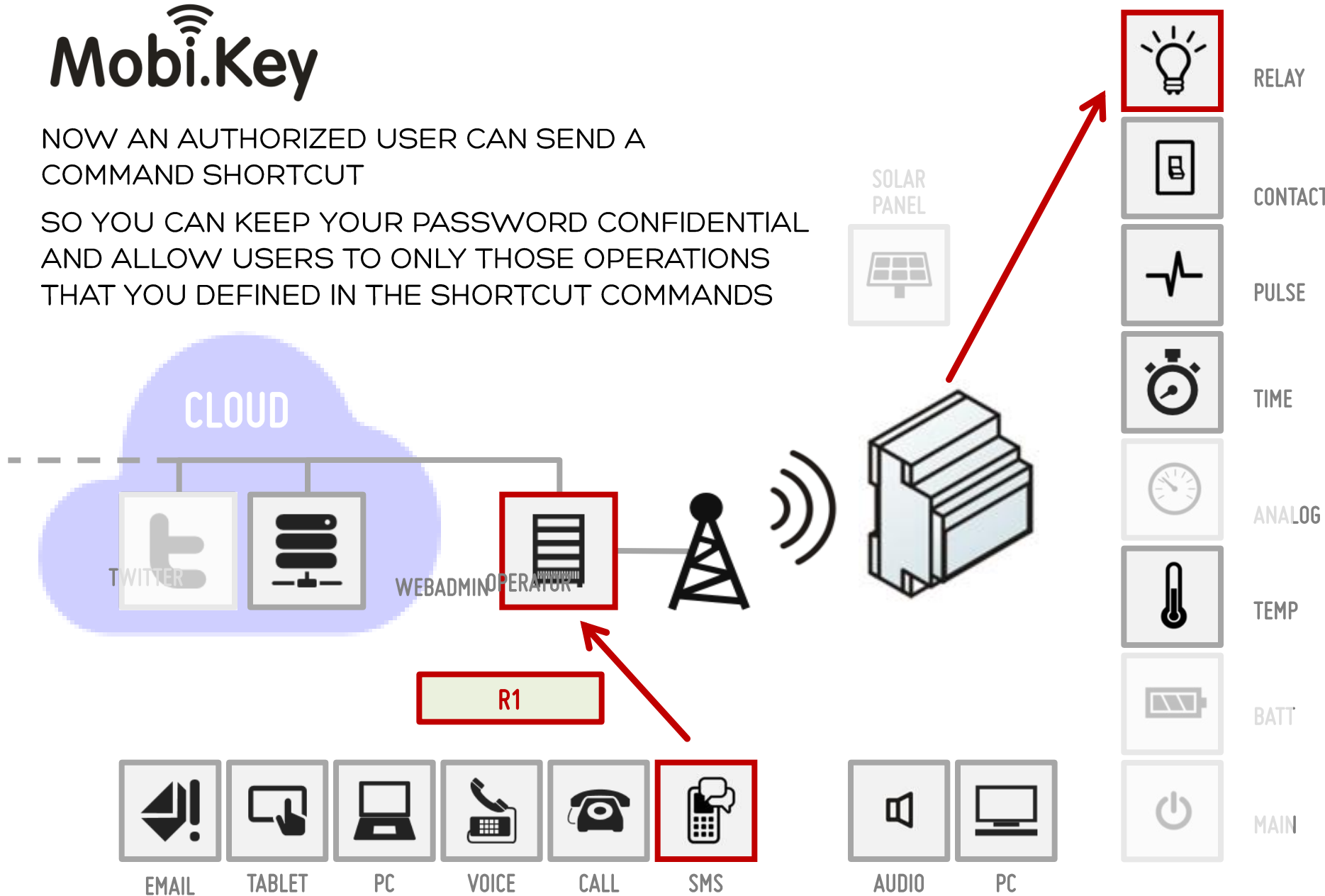
The screenshot shows a configuration form for a Mobi.Key service. It includes the following fields and options:

- Description:** A text input field containing "OUT 1 OFF REQUEST".
- Shortcut word:** A text input field containing "R1".
- Keyboard command (DTMF):** A dropdown menu with "4" selected.
- Commands:** A text area containing "out1=0". A "HELP" link is visible to the right of the text area.
- Trace text:** A text input field containing "OUT 1 OFF REQUEST".

Mobi.Key

NOW AN AUTHORIZED USER CAN SEND A
COMMAND SHORTCUT

SO YOU CAN KEEP YOUR PASSWORD CONFIDENTIAL
AND ALLOW USERS TO ONLY THOSE OPERATIONS
THAT YOU DEFINED IN THE SHORTCUT COMMANDS









YOU CAN CONFIGURE UP TO 100 RECIPIENTS ALERTS TO BE SENT ON EVENT OCCURRENCE
ENTER THE NAME AND CHOOSE THE EVENT,
NOW SET ONE OR MORE ALERTS :

- VOICE CALL
IF THE RECIPIENT ANSWERS WILL HEAR A WARNING
- ALTERNATE VOICE CALL
IF THE FIRST NUMBER IS NOT REACHABLE
- SMS
WITH SPECIFIC TEXT FOR EACH RECIPIENT
- EXTENDED SMS
INCLUDING COMPLETE DEVICE STATUS
- EMAIL
MESSAGE + STATUS + CELL LOCATION
- MESSAGE TEXT
UP TO 50 CHARACTERS

DESTINATION MAY BE A STATIC OR DYNAMIC PHONE NUMBER :
LAST VOICE CALLER - LAST SMS SENDER - LOCAL COM PORT
DEVICE ITSELF - DEVICE TWITTER ACCOUNT

Recipient Name	<input type="text" value="John Doe"/>
Trigger event	<input type="text" value="Input 1 closing"/> ▾
Primary Call destination	<input type="text" value="+441111111"/> 
Alternate Phone Number	<input type="text" value="LAST VOICE CALLER"/> 
SMS destination	<input type="text" value="+442222222"/> 
Extended SMS destination	<input type="text" value="LAST SMS SENDER"/> 
Email address	<input type="text" value="john@doe.com"/>
Message text	<input type="text" value="Input 1 alarm"/>



YOU CAN DECIDE WHETHER TO MAKE ALL ALERT CALLS OR TERMINATE WHEN ONE OF THE RECIPIENTS ANSWERS AND PRESSES A KEYPAD BUTTON (ACKNOWLEDGE)

YOU CAN ALSO DEFINE THE INTERVAL BETWEEN CONSECUTIVE CALLS AND THE DURATION OF ANY ATTEMPT TO CALL

THE SAME WAY YOU CAN DECIDE WHETHER TO SEND ALL TEXT MESSAGES OR TERMINATE WHEN A RECIPIENT REPLICATES WITH AN ACKNOWLEDGE SMS "ACK"

SET THE DELAY BETWEEN CONSECUTIVE SMS

ORIGINATED CALLS

Originated calls mode

Call duration [sec]

Interval between calls [sec]

Trace text

ORIGINATED SMS

Originated SMS mode

Interval between sending [sec]

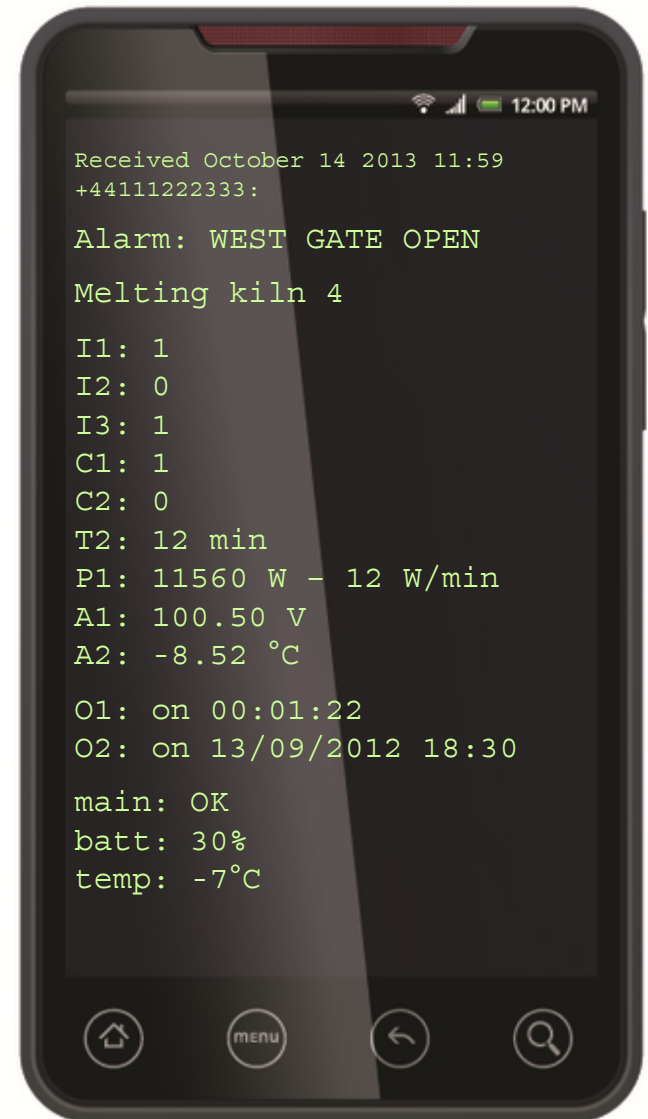
Trace text

Mobi.Control

EXTENDED SMS INCLUDES THE SPECIFIC TEXT OF THE RECIPIENT AND THE STATUS OF ALL ENABLED RESOURCES

IF ALL RESOURCES ARE ACTIVE STATUS WILL BE SENT VIA MULTIPLE SMS

THE SAME STATUS MESSAGE CAN BE SENT ON REQUEST OR AS A SCHEDULED ACTIVITY



Mobi.Key

YOU CAN CONFIGURE EACH INPUT
AND EACH OUTPUT :

- ASSIGN A NAME
THAT IDENTIFIES THE CHANNEL
- SET THE RESPONSE TIME 1 ... 300 seconds
SHORTEST EVENTS WILL BE IGNORED
- LOCAL SOUND
THE SOUND TO BE PLAYED ON EVENT
ASSOCIATED WITH CHANNEL
 - Mobi.Control : 9 TONES ON EMBEDDED BUZZER
 - ALL DEVICES : A VOICE MESSAGE TO BE REPRODUCED
ON THE EXTERNAL LOUDSPEAKER
- TRACE TEXT
WILL BE USED TO IDENTIFY THE EVENT SAVED IN THE
DEVICE MEMORY (LOG) WHICH CAN HOLD UP TO 98 EVENTS
THE SAME TEXT CAN BE SENT TO THE LOCAL COM PORT
OR TO REMOTE LOG (WEB SERVICE)

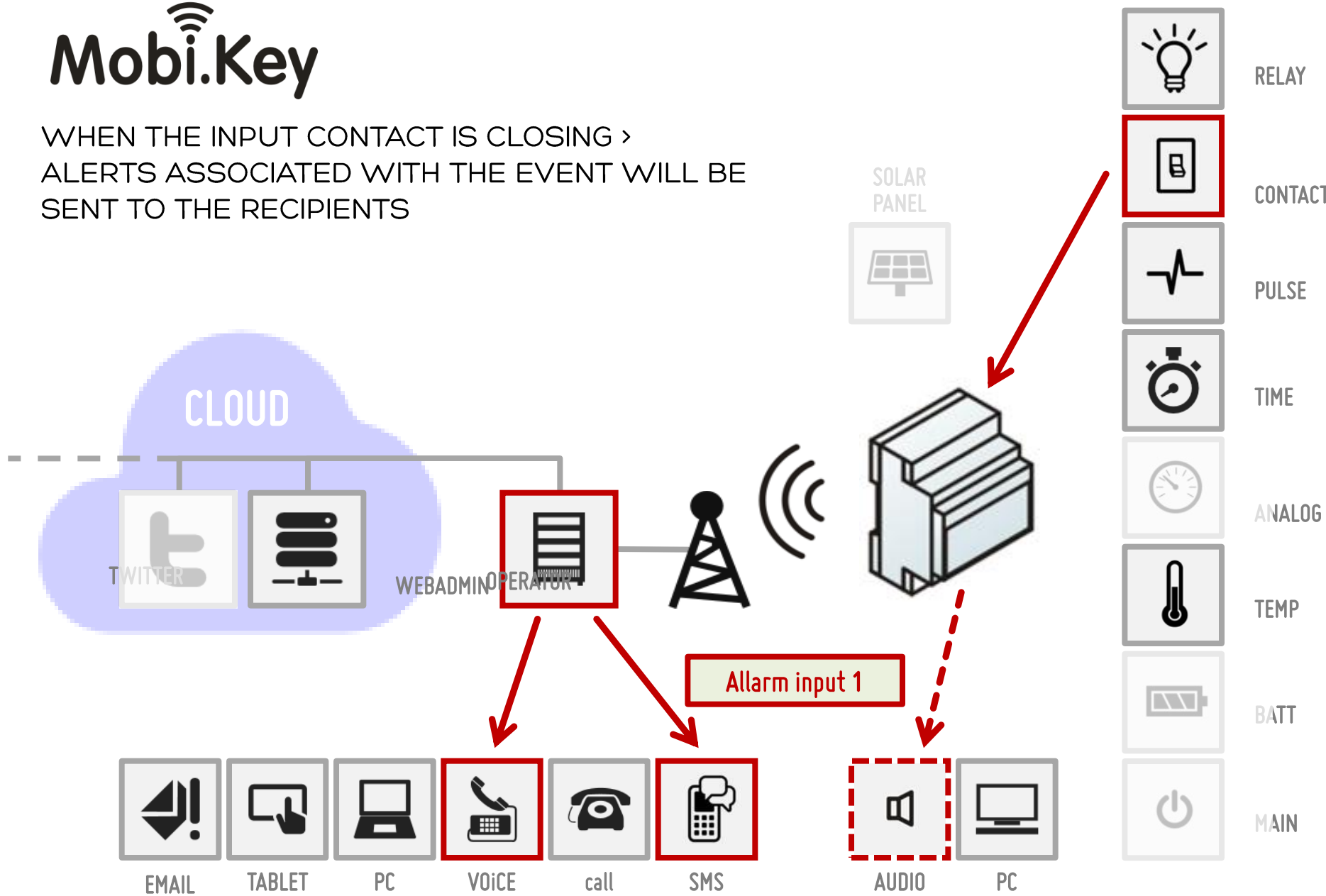
Enable DIGITAL INPUT I1
Input Name

Activation Time (sec)

On close On open
Trace text

Mobi.Key

WHEN THE INPUT CONTACT IS CLOSING >
ALERTS ASSOCIATED WITH THE EVENT WILL BE SENT TO THE RECIPIENTS



Mobi.Key

YOU CAN USE THE DIGITAL INPUT AS A TIME COUNTER THAT IS INCREMENTED WHEN THE INPUT IS CLOSED: :

- ASSIGN A NAME THAT IDENTIFIES THE FUNCTION
- SET THE RESPONSE TIME 1 ... 300 seconds SHORTEST EVENTS WILL BE IGNORED
- YOU CAN SET A TIME THRESHOLD REACHING THE VALUE AN ALERT WILL BE SENT AND / OR A LOCAL SOUND IS REPRODUCED
- COUNTER RESET CAN BE ON REQUEST, WITH COMMAND OR AUTOMATICALLY WHEN IT REACHES THE ACCUMULATED TIME THRESHOLD

THE ACCUMULATED TIME IS GIVEN AT EVERY STATUS REQUEST (EVEN IF YOU HAVE NOT SET ANY THRESHOLD)

Enable TIME COUNTER T1

Input Name

Activation Time (sec)

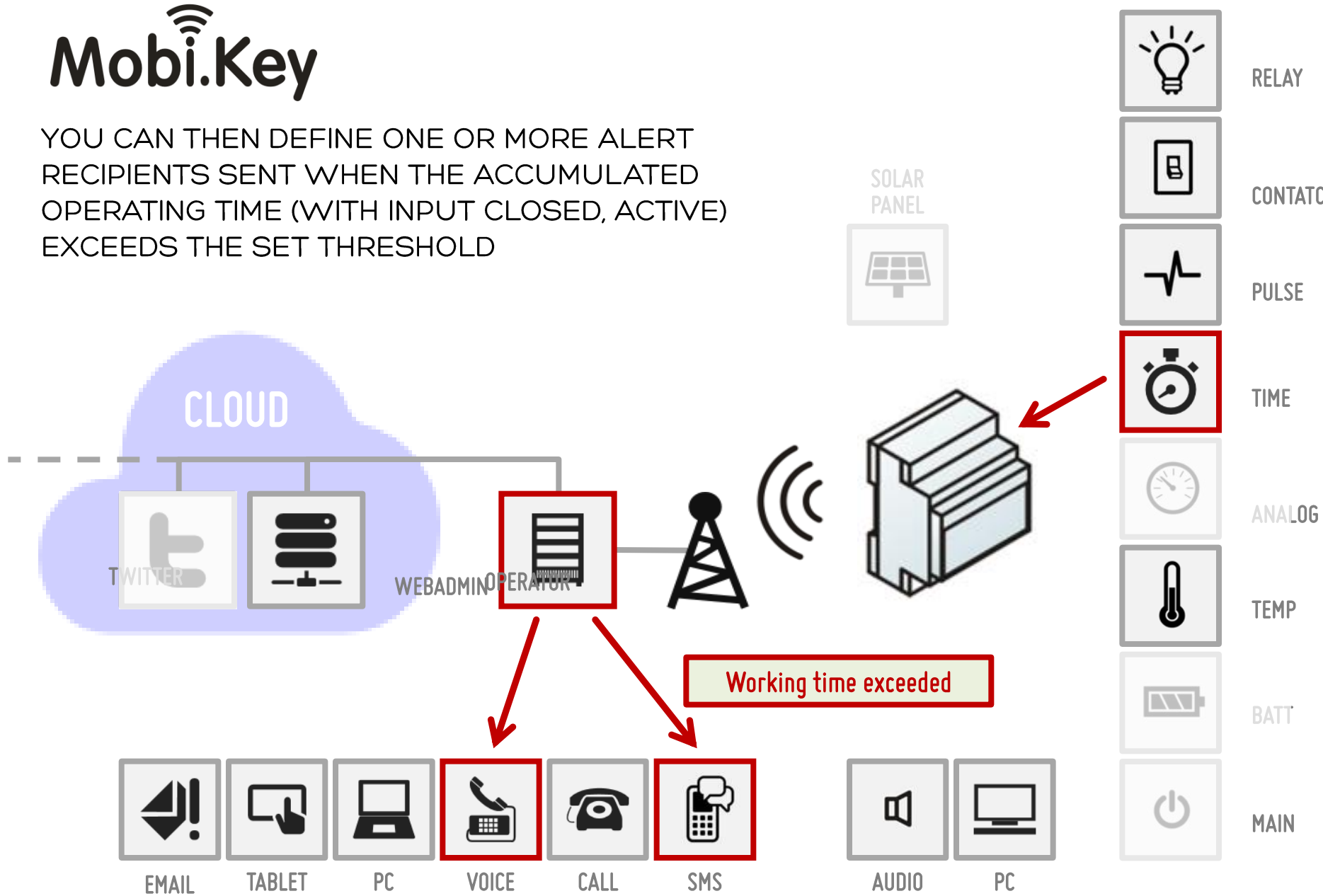
Time Threshold [min] On rising above

Counter reset

Trace text

Mobi.Key

YOU CAN THEN DEFINE ONE OR MORE ALERT RECIPIENTS SENT WHEN THE ACCUMULATED OPERATING TIME (WITH INPUT CLOSED, ACTIVE) EXCEEDS THE SET THRESHOLD





... OR YOU MAY ENABLE DIGITAL INPUT AS PULSE COUNTER, SETTING :

- LOW RATIO THRESHOLD
FOR EXAMPLE A MINIMUM FLOW RATE
- HIGH RATIO THRESHOLD
FOR EXAMPLE A MAXIMUM FLOW RATE
- COUNTER THRESHOLD
FOR EXAMPLE THE TOTALIZED CONSUMPTION
- PULSES PER COUNT
HOW MANY PULSES ARE NEEDED TO INCREMENT THE COUNTER BY 1
- MINIMUM DETECTABLE PULSE
TO MEET CONNECTED SENSOR, FOR EXAMPLE
MECHANICAL CONTACTS 100 milliseconds
ELECTRONIC CONTACTS 20 milliseconds

THE ACCUMULATED COUNT IS GIVEN AT EVERY STATUS REQUEST, FOLLOWED BY THE UNIT (EVEN IF YOU HAVE NOT SET ANY THRESHOLD)

A screenshot of a web-based configuration interface for a pulse counter. The interface is enclosed in a red border. At the top, there is a checked checkbox labeled "Enable PULSE COUNTER P1". Below this, the "Input Name" is set to "Greenhouse water". The "Low Ratio Threshold" is set to 1, with a dropdown menu for "On falling below" set to "no audio". The "High Ratio Threshold" is set to 20, with a dropdown menu for "On rising above" set to "no audio". The "Counter Threshold" is set to 30000, with a dropdown menu for "On rising above" set to "no audio". The "Counter reset" is set to "AUTO: reaching threshold". The "Pulses per Count" is set to 3, and the "Pulse width" is set to 100 ms. The "Measuring Unit" is set to "ltr", and the "Trace text" is set to "water".

Enable PULSE COUNTER P1

Input Name
Greenhouse water

Low Ratio Threshold 1 On falling below no audio

High Ratio Threshold 20 On rising above no audio

Counter Threshold 30000 On rising above no audio

Counter reset
AUTO: reaching threshold

Pulses per Count 3 Pulse width 100 ms

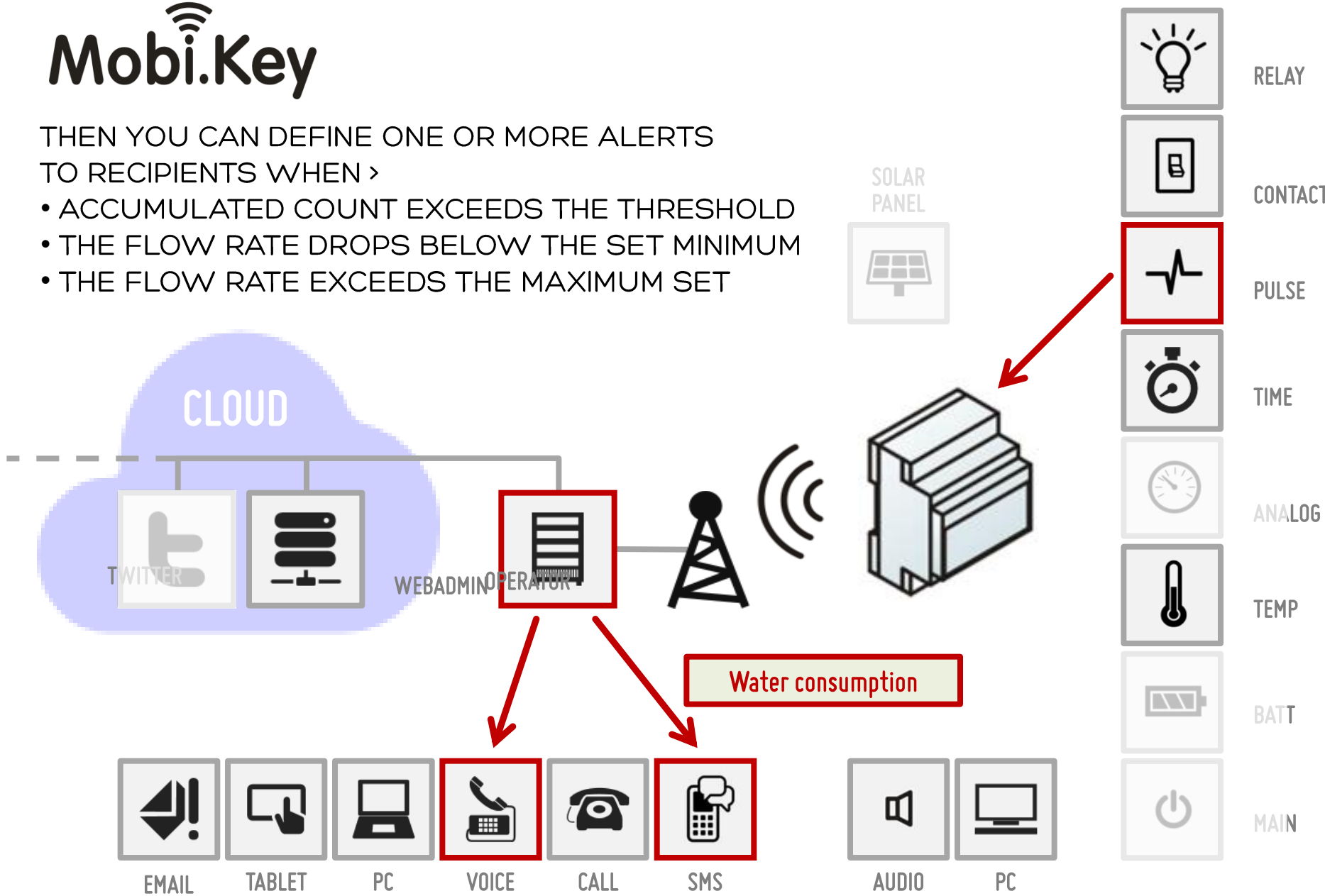
Measuring Unit
ltr

Trace text
water

Mobi.Key

THEN YOU CAN DEFINE ONE OR MORE ALERTS TO RECIPIENTS WHEN >

- ACCUMULATED COUNT EXCEEDS THE THRESHOLD
- THE FLOW RATE DROPS BELOW THE SET MINIMUM
- THE FLOW RATE EXCEEDS THE MAXIMUM SET



Mobi.Key

A BUILT IN SENSOR ALLOWS YOU TO KNOW THE DEVICE TEMPERATURE (IN MOST CASES IS NEAR THE AMBIENT TEMPERATURE)

YOU CAN USE THIS CHANNEL AS ANY OTHER INPUT DEFINING THRESHOLDS FOR LOW AND HIGH TEMPERATURE IN THE RANGE -40 ... +85 ° C

Enable INTERNAL TEMPERATURE
Input Name

Activation Time (sec)

Low Threshold [°C] On falling below
High Threshold [°C] On rising above
Trace text



YOU CAN ALSO CONFIGURE THE BEHAVIOR OF THE OUTPUTS :

- **ASSIGN A NAME**
THAT IDENTIFIES THE CHANNEL
- **LOCAL SOUND**
THE SOUND TO BE PLAYED ON OUTPUT ACTIVATION AND/OR RELEASE
- **RETENTIVE**
ENABLE IF YOU WANT THE OUTPUT RESTORED AFTER A POWER FAILURE
- **REMOTE CONTROL**
DISABLE IF YOU DO NOT WANT TO ALLOW THE CONTROL BY REMOTE COMMANDS
- **LOCAL CONTROL**
YOU CAN BIND THE OUTPUT TO A LOCAL EVENT

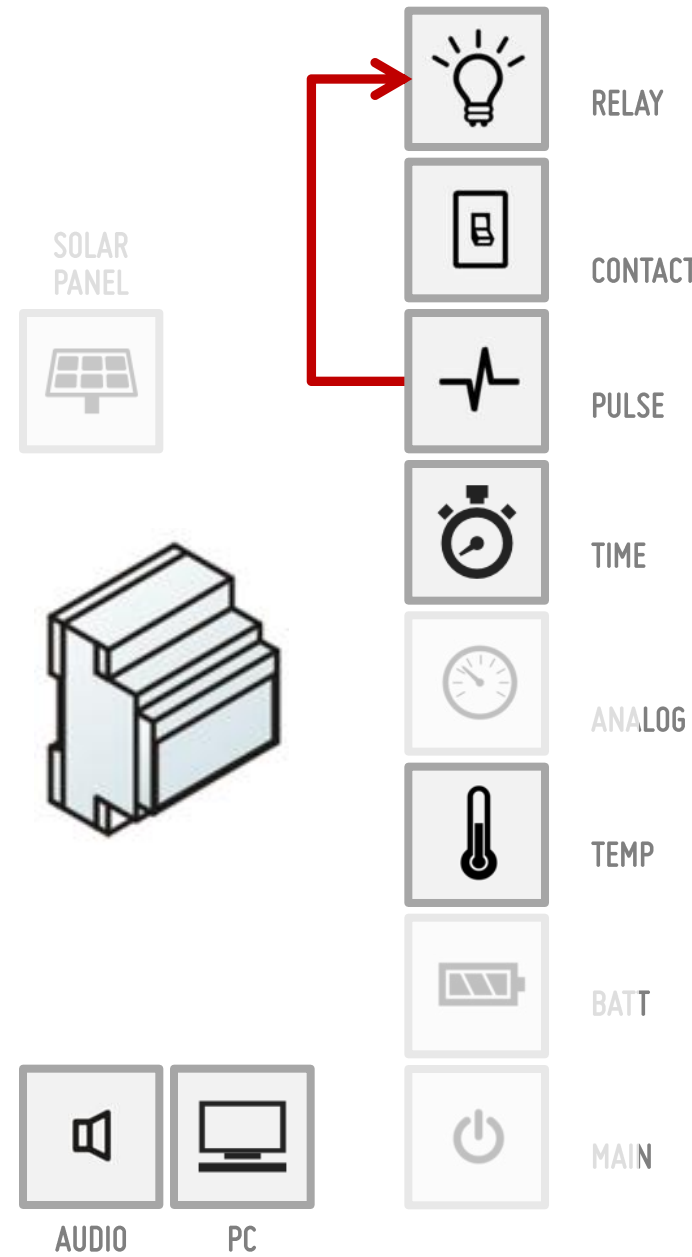
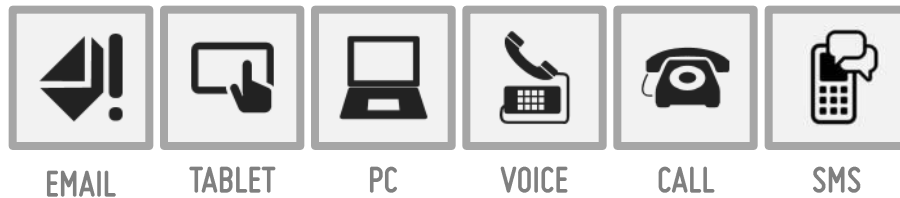
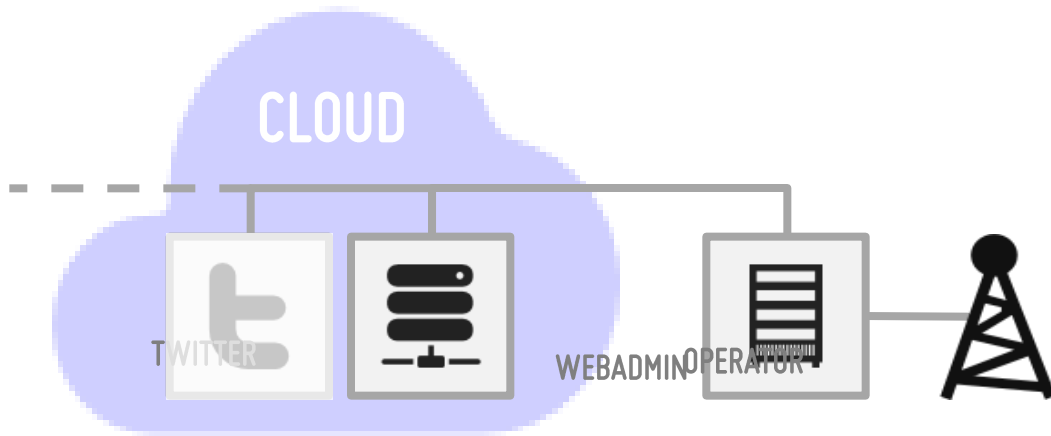
SO YOU CAN BUILD A SMALL LOCAL LOGIC AS YOU WOULD IN A PROGRAMMABLE RELAY OR A SMALL PLC

A screenshot of the configuration interface for a relay output, enclosed in a red border. The interface is light gray and contains the following elements:

- A checked checkbox labeled "Enable RELAY OUTPUT 01".
- A text input field labeled "Output Name" containing the text "Pump".
- Two dropdown menus: "On activate" set to "no audio" and "On release" set to "no audio".
- A dropdown menu labeled "Retentive" set to "YES".
- A dropdown menu labeled "Remote control" set to "YES".
- A dropdown menu labeled "Local control" set to "Activate falling below P ratio".
- A text input field labeled "Trace text" containing the text "Greenhouse water pump".

Mobi.Key

IN THIS EXAMPLE OUTPUT 1 IS TURNED ON
WHENEVER THE FLOW RATE MEASURED AT THE
INPUT EXCEEDS THE SET THRESHOLD
YOU CAN TURN IT OFF REMOTELY
(IF THIS OPTION HAS BEEN ENABLED)





YOU CAN ENABLE THE GSM NETWORK MONITOR AND DETECT THE CHANGE OF LOCATION :

- MCC - COUNTRY CHANGE
MOBILE COUNTRY CODE
- MNC - NETWORK CHANGE
MOBILE NETWORK CODE
- LAC - AREA CHANGE
LOCAL AREA CODE
- CI - CELL CHANGE
CELL ID

YOU CAN USE THE 4 EVENTS OF THIS CHANNEL AS ANY OTHER INPUT

ONCE ENABLED YOU CAN ASSOCIATE IT TO RECIPIENTS ALERTS AND/OR LOCAL ACTIONS

GEOFENCE

Detect Country change (MCC)

Detect Network change (MNC)

Detect Area change (LAC)

Detect Cell change (CI)

Channel Name

Location change

On position change

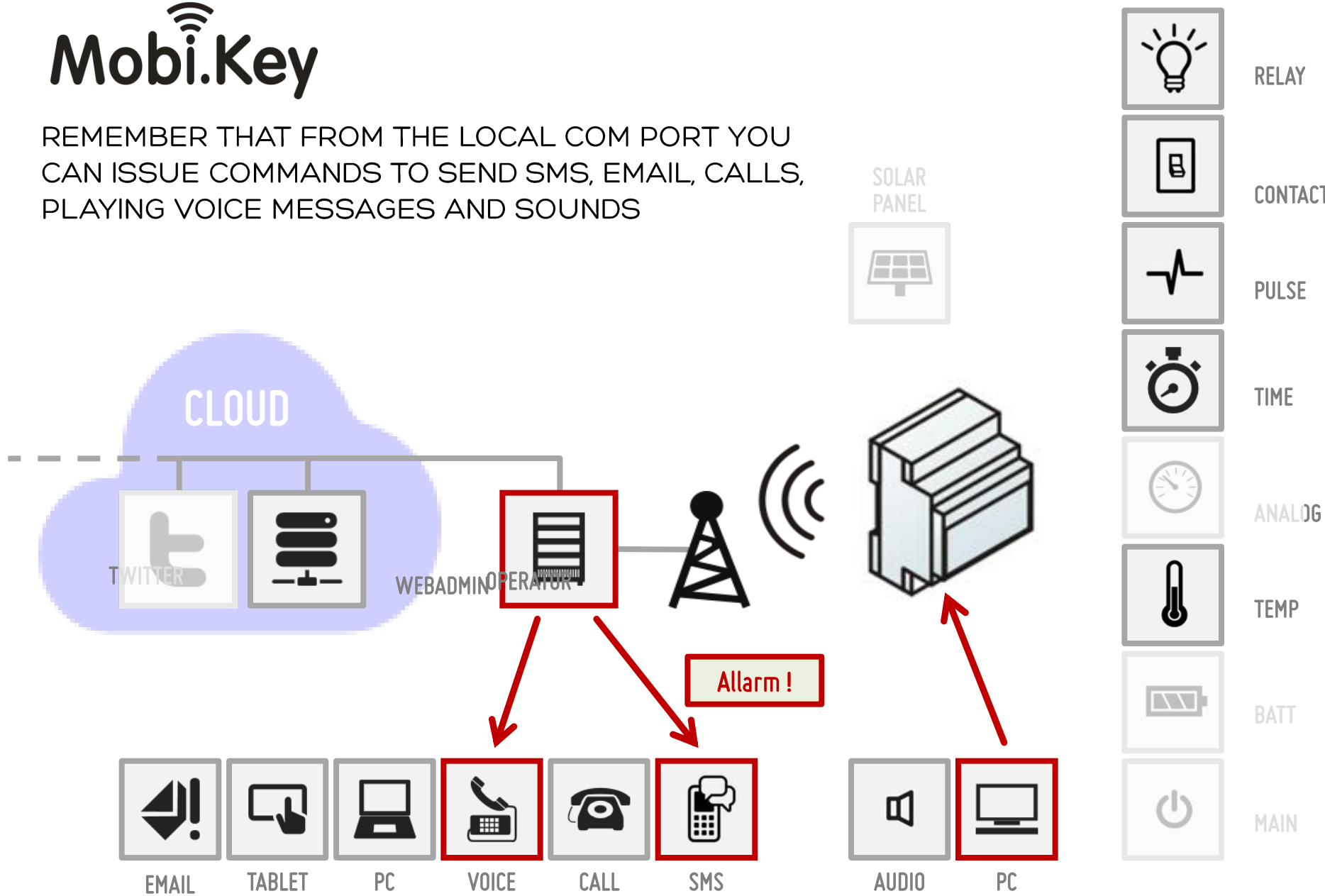
Voice

Trace text

geofence

Mobi.Key

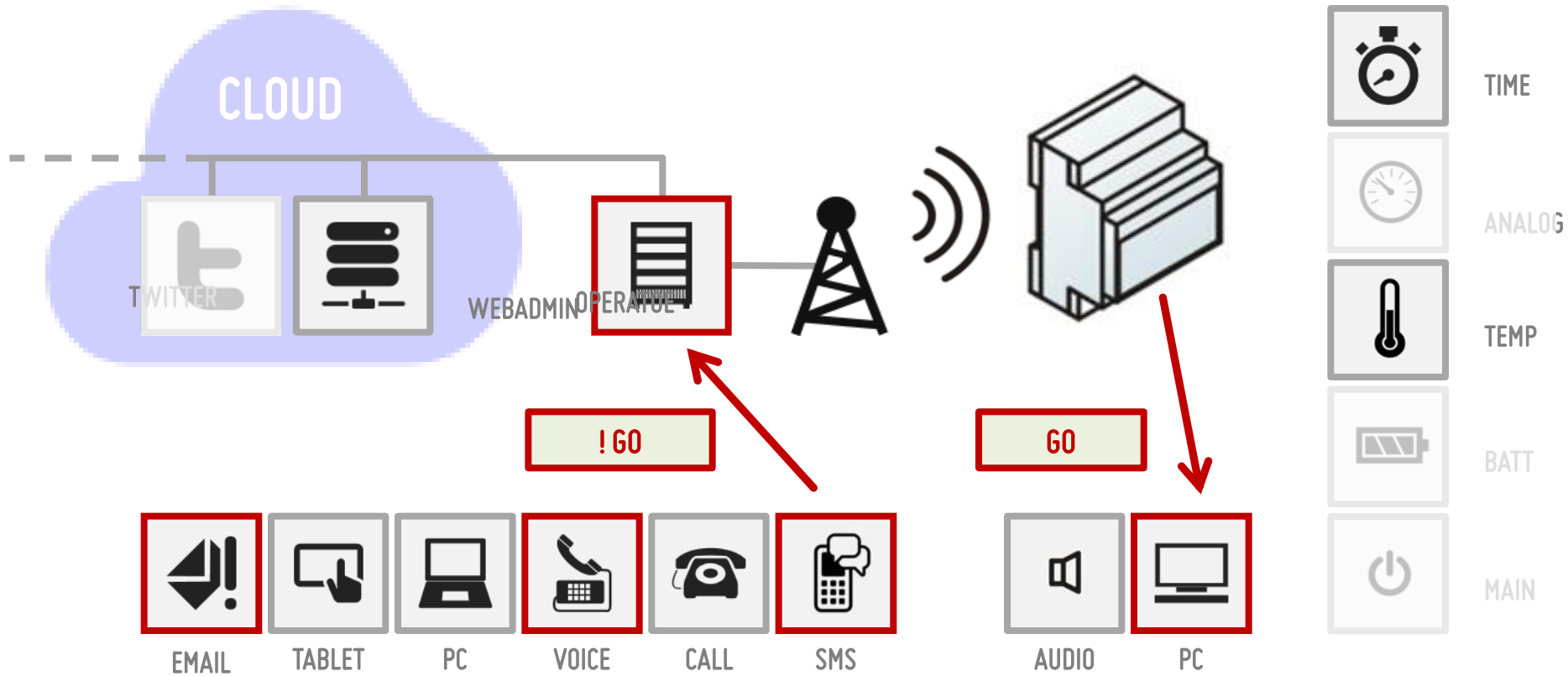
REMEMBER THAT FROM THE LOCAL COM PORT YOU CAN ISSUE COMMANDS TO SEND SMS, EMAIL, CALLS, PLAYING VOICE MESSAGES AND SOUNDS



Mobi.Key

YOU CAN ALSO SEND A MESSAGE THAT WILL BE DIRECTLY ROUTED TO THE LOCAL COM PORT: ENTER AN EXCLAMATION MARK AS THE FIRST CHARACTER

SO YOU COULD ISSUE CONTROLS TO AN EXTERNAL MACHINE



start1 ENABLE USERS BELONGING TO GROUP 1
stop1 DISABLE USERS BELONGING TO GROUP 1
start2 ENABLE USERS BELONGING TO GROUP 2
stop2 DISABLE USERS BELONGING TO GROUP 2
alert ENABLE ALERTS TO RECIPIENTS
noalert DISABLE ALERTS TO RECIPIENTS
isms ENABLE INTERACTIVE SMS
noisms DISABLE INTERACTIVE SMS
sms SEND A GENERIC SMS
tweet SEND A GENERIC TWEET
email SEND A GENERIC EMAIL
status ASK FOR DEVICE STATUS

out SWITCH OUTPUT ON/OFF
in INPUT OPEN/CLOSE SIMULATION

clock SET REAL TIME CLOCK
set1 SET VALUE FOR SETPOINT 1
set2 SET VALUE FOR SETPOINT 2
thr SET ANALOG/COUNTER THRESHOLDS
zero1 RESET COUNTER 1
zero2 RESET COUNTER 2

log ASK FOR LOG MEMORY (LAST 98 EVENTS)
clearlog CLEAR EVENTS MEMORY
logstatus SAVE CURRENT STATUS TO LOG MEMORY
logemail SEND LOG MEMORY TO EMAIL ADDRESS

apn SET APN AND ENABLE WEB SERVICES
noapn DELETE APN AND DISABLE WEB SERVICES

beep PLAY AN AUDIO TONE
melody PLAY A MELODY
speech PLAY A VOICE MESSAGE

way ASK FOR GEOGRAPHIC INFO
sync ASK TO FETCH WEB CONFIGURATION
webcmd ASK TO FETCH WEB COMMAND QUEUE

neton TURN ON RADIO, REGISTER TO NETWORK
netoff TURN OFF RADIO, DETACH FROM NETWORK
netnew FORCE NEW NETWORK REGISTRATION
divert ENABLE INCOMING CALL DIVERTING
nodivert DISABLE INCOMING CALL DIVERTING
work DEVICE WORKING TIME (MAIN/BATTERY)

COMMANDS ISSUED FROM LOCAL COM PORT MUST HAVE A LEADING AT#
PASSWORD MUST BE INCLUDED WHEN COMMANDS ARE SENT FROM REMOTE (SMS, TWEET, WEB)

Mobi.Switch



2 ANALOG INPUTS

0 ... 10 V / 0 ... 20 mA
NTC SENSOR

2 RELAY OUTPUTS

3A / 250V_{AC}

2 MULTIFUNCTION INPUTS

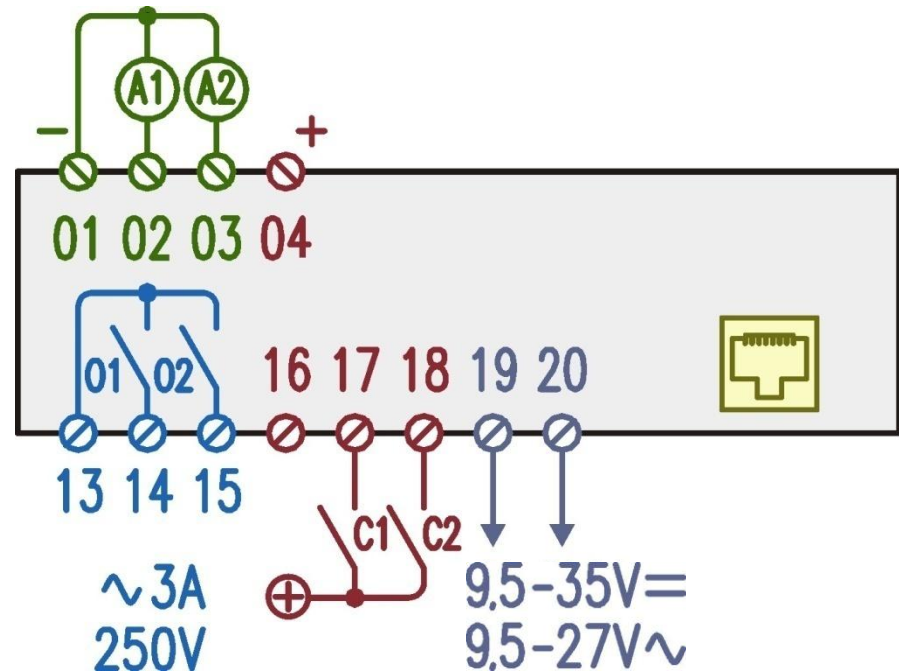
DIGITAL
TIME COUNTER
PULSE COUNTER

- POWER SUPPLY

9,5 ... 27 V_{AC} / 9,5 ... 35 V_{DC}

- RJ CONNECTOR

COMMUNICATION PORT
5VDC POWER SUPPLY
LOUDSPEAKER



Mobi.Switch

YOU CAN ENABLE ANALOG INPUTS TO MEASURE SIGNALS IN THE RANGE 0 ... 10V / 0 ... 20 mA :

- ASSIGN A NAME THAT IDENTIFIES THE CHANNEL
- ZERO SET THE MEASURED VALUE CORRESPONDING TO BEGINNING OF THE SCALE, FOR EXAMPLE, SIGNALS 2 ... 10V OR 4 ... 20MA SETS 20% AS THE INITIAL SCALE
- TOP SETS THE VALUE CORRESPONDING TO THE FULL SCALE, IN THIS CASE 10V INPUT WILL REPORTED WITH THE VALUE 1800

YOU CAN SET THRESHOLDS, FOR HOW LONG THE VALUE MUST EXCEED THRESHOLD TO TRIGGER THE EVENT AND HYSTERESIS

MEASURED VALUE IS GIVEN AT EVERY STATUS REQUEST, FOLLOWED BY THE UNIT

Disable ANALOG INPUT A1

Enable 0...10V / 0...20mA

Enable NTC temperature sensor

Input Name

Water level

Zero

20

Top

1800

Activation Time (sec)

3

Low Threshold

80

On falling below

no audio

High Threshold

1750

On rising above

no audio

Hysteresis

3

Measuring Unit

in

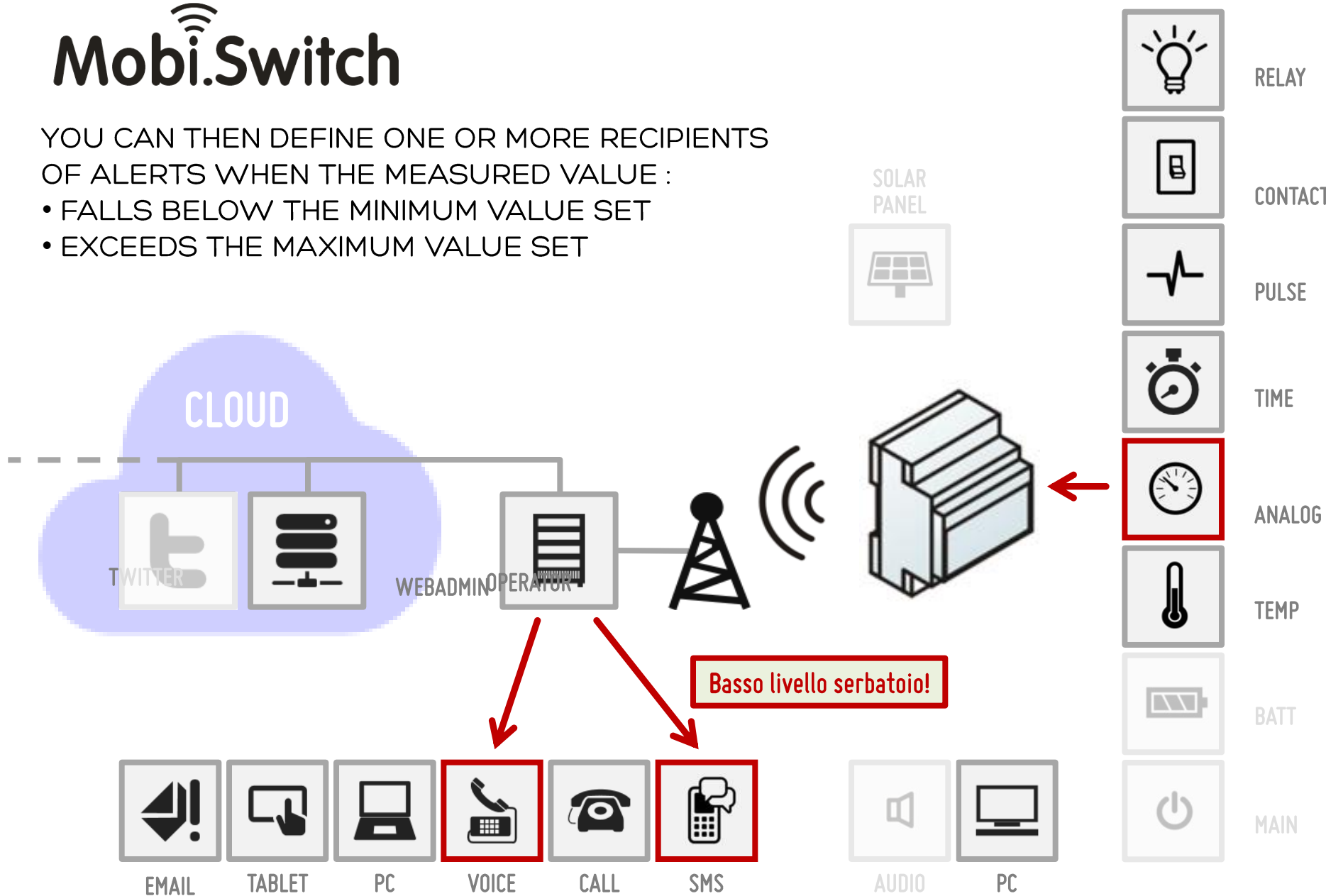
Trace text

Water tank

Mobi.Switch

YOU CAN THEN DEFINE ONE OR MORE RECIPIENTS OF ALERTS WHEN THE MEASURED VALUE :

- FALLS BELOW THE MINIMUM VALUE SET
- EXCEEDS THE MAXIMUM VALUE SET



Mobi.Switch

... OR CONNECT A NTC SENSOR TO MEASURE TEMPERATURES IN THE RANGE -40 ... 60 °C



EVEN IN THIS CASE YOU CAN DEFINE THRESHOLDS AND MINIMUM TIME TO TRIGGER THE EVENT

MEASURED VALUE IS GIVEN AT EVERY STATUS REQUEST, FOLLOWED BY THE SELECTED UNIT °C / °F

Disable ANALOG INPUT A1
 Enable 0...10V / 0...20mA
 Enable NTC temperature sensor

Input Name

Activation Time (sec)

Low Threshold On falling below

High Threshold On rising above

°C °F

Trace text

Mobi.Switch

YOU CAN CREATE A REMOTE CONTROLLED THERMOSTAT BY SETTING EITHER OR BOTH OUTPUTS SO THAT THE MEASURED TEMPERATURE OF ANALOG INPUT IS KEPT AT SETPOINT (SET BY LOCAL OR REMOTE CONTROL)

YOU CAN ALSO SET AN ANTIFROST THRESHOLD
ENABLE OR DISABLE THE HEATING WITH A CALL OR A TEXT MESSAGE

YOU CAN ALSO MOVE THE SETPOINT USING SCHEDULED OPERATIONS IN ORDER TO CREATE A COMPLETE CHRONOTHERMOSTAT

Enable RELAY OUTPUT 01

Output Name

On activate On release

Retentive

Remote control

Local control

Trace text

2 ANALOG INPUTS

0 ... 10 V / 0 ... 20 mA

NTC SENSOR

8 DIGITAL INPUTS

INTERNAL POWER SUPPLY

2 RELAY OUTPUT

3A / 250V_{ac}

2 MULTIFUNCTION INPUTS

DIGITAL

TIME COUNTER

PULSE COUNTER

- POWER SUPPLY

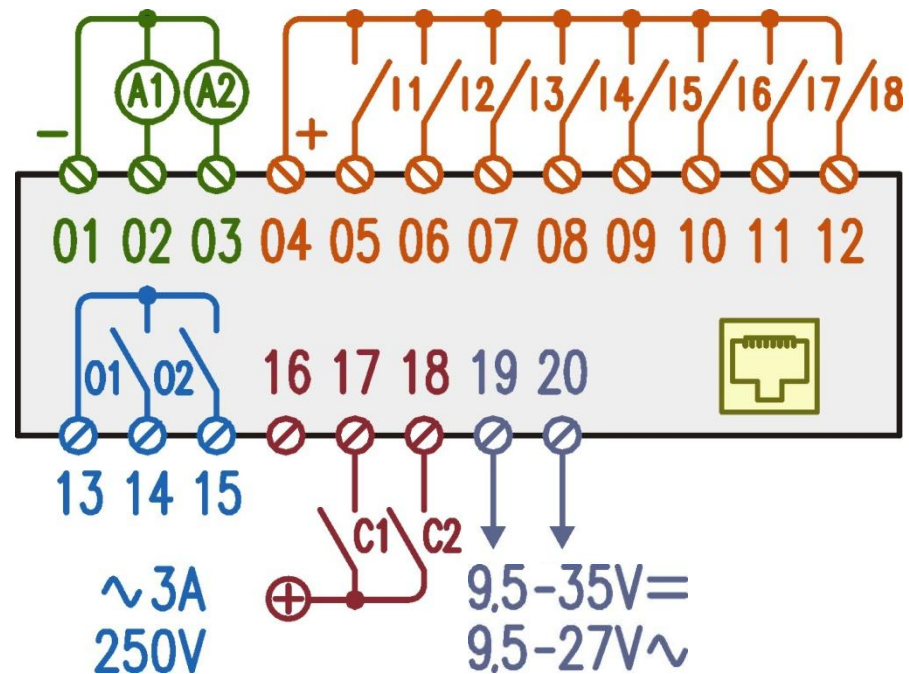
9,5 ... 27 V_{ac} / 9,5 ... 35 V_{dc}

- RJ CONNECTOR

COMMUNICATION PORT

5VDC POWER SUPPLY

LOUDSPEAKER



Mobi.Control

Mobi.Control IS EQUIPPED WITH A LITHIUM-ION BATTERY SO YOU CAN ENABLE THE POWER SUPPLY MONITOR AND DETECT MAIN POWER BLACKOUT LONGER THAN THE SET TIME (FROM 1 second TO 18 hours)

MAIN POWER CONDITION IS GIVEN AT EVERY STATUS REQUEST



Enable POWER SUPPLY MONITOR

Input Name

Activation Time (sec)

On close On open

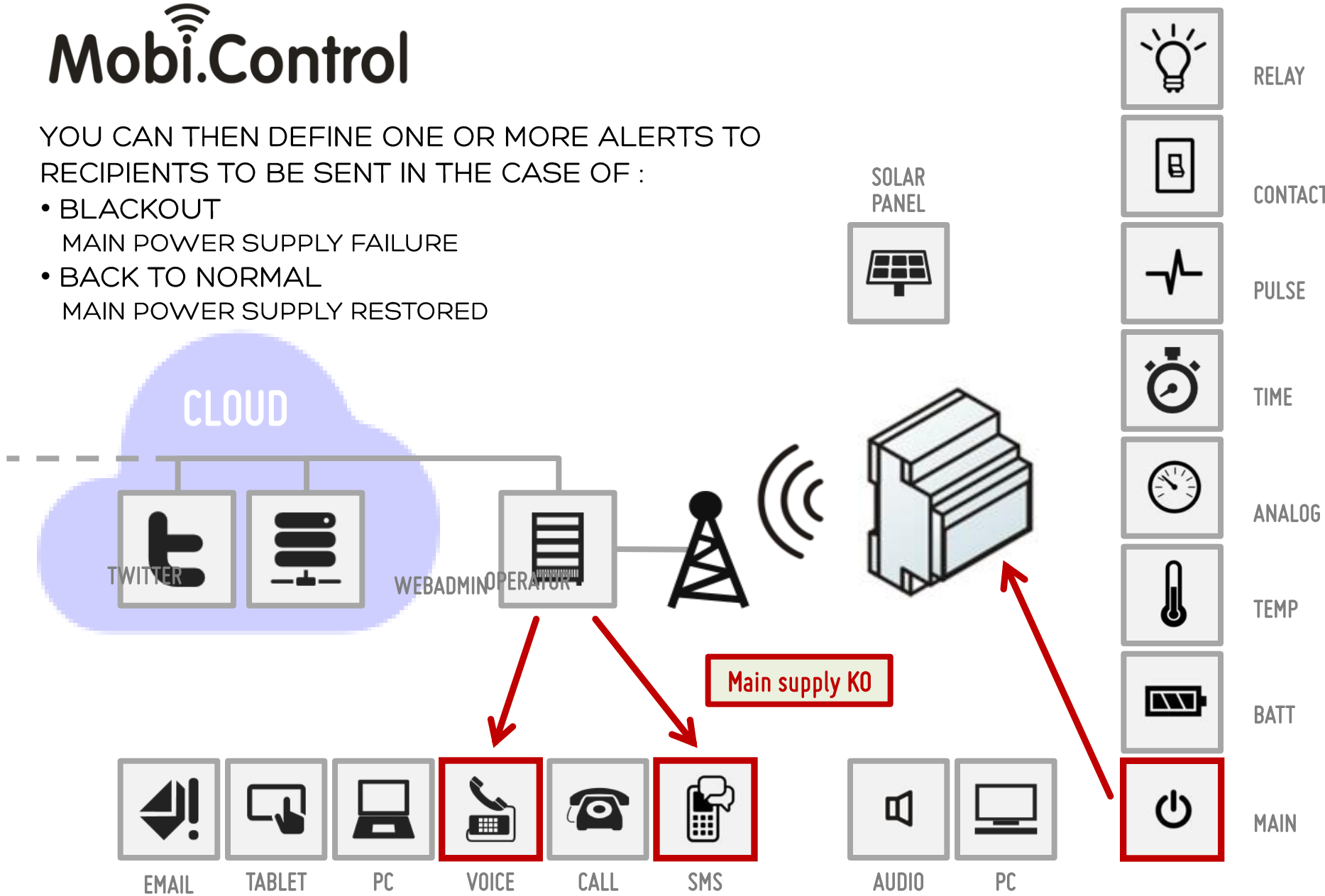
Trace text

THE DEVICE CAN RECEIVE THE SUPPLY FROM THE TERMINAL STRIP, OR FROM THE RJ MULTIFUNCTION SOCKET WHERE YOU CAN ALSO CONNECT CAR POWER SUPPLY OR A SOLAR PANEL SUITABLE TO KEEP THE BATTERY CHARGED FOR STANDALONE OPERATION

Mobi.Control

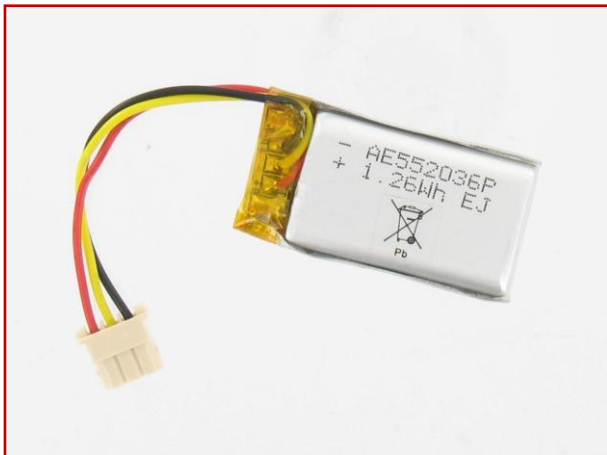
YOU CAN THEN DEFINE ONE OR MORE ALERTS TO RECIPIENTS TO BE SENT IN THE CASE OF :

- BLACKOUT
MAIN POWER SUPPLY FAILURE
- BACK TO NORMAL
MAIN POWER SUPPLY RESTORED



Mobi.Control

YOU CAN OF COURSE ENABLE THE BATTERY MONITOR AND DETECT WHEN THE BATTERY LEVEL IS OVER THE THRESHOLDS FOR LONGER THAN THE SET TIME



Enable BATTERY

Input Name
BATT

Activation Time (sec)
3

Low Threshold [mV] On falling below
3200 no audio

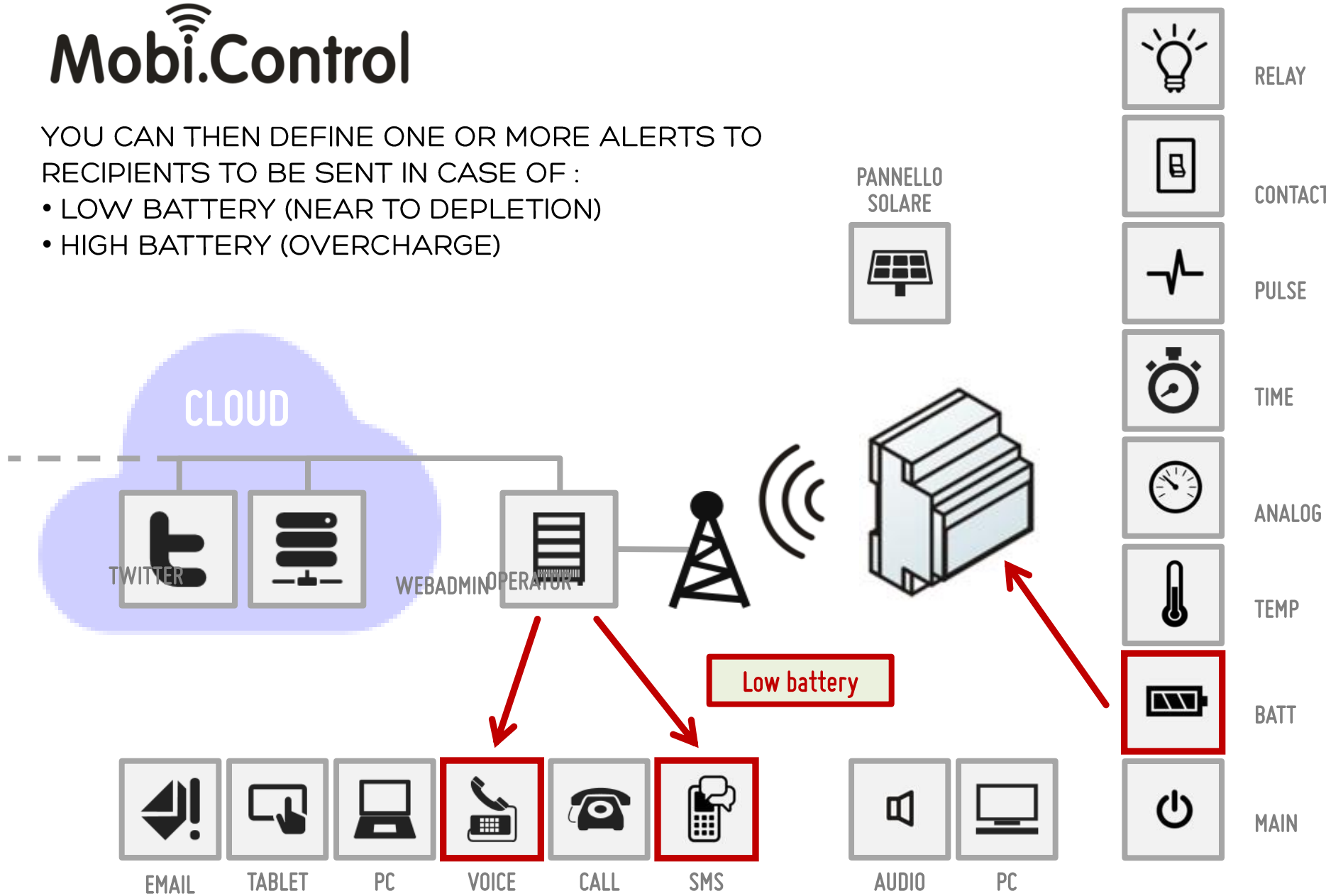
High Threshold [mV] On rising above
4200 no audio

Trace text
BATT

Mobi.Control

YOU CAN THEN DEFINE ONE OR MORE ALERTS TO RECIPIENTS TO BE SENT IN CASE OF :

- LOW BATTERY (NEAR TO DEPLETION)
- HIGH BATTERY (OVERCHARGE)



Mobi.Control

YOU CAN DEFINE UP TO 10 ACTIONS TO BE PERFORMED ON LOCAL EVENT :

- MAIN POWER SUPPLY FAILURE
- DIGITAL INPUTS I1 ... I8 CLOSING
- MAIN POWER SUPPLY RESTORE
- DIGITAL INPUTS I1 ... I8 OPENING
- DIGITAL INPUTS C1 ... C2 CLOSING
- DIGITAL INPUTS C1 ... C2 OPENING
- LOW RATIO PULSE COUNTER INPUTS P1 ... P2
- HIGH RATIO PULSE COUNTER INPUTS P1 ... P2
- ACCUMULATED TIME THRESHOLD INPUTS T1 ... T2
- ACCUMULATED PULSE THRESHOLD INPUTS P1 ... P2
- LOW BATTERY
- ANALOG INPUTS A1 ... A2 FALLING BELOW THRESHOLD
- LOW INTERNAL TEMPERATURE
- ALTO LIVELLO DI BATTERIA
- ANALOG INPUTS A1 ... A2 RISING ABOVE THRESHOLD
- HIGH INTERNAL TEMPERATURE
- MCC / MNC / LAC / CID CHANGE
- OUTPUTS O1 ... O2 ACTIVATION
- OUTPUTS O1 ... O2 RELEASE

PRO-LOGIC

Description

Trigger event
 ▼

Commands [HELP](#)

Trace text

Mobi.Control

YOU CAN SET UP TO 100 TASKS TO RUN AT A SPECIFIC TIME, ONCE OR PERIODICALLY

FOR EXAMPLE, YOU CAN PROGRAM THE OPENING OF A GATE AT 08:00 OF EVERY WORKING DAY

IN THE EXAMPLE THE COMMAND THAT ACTIVATES THE OUTPUT IS FOLLOWED BY THE ACTIVATION TIME

hh : mm : ss

IT MEANS THE OUTPUT WILL TURN ON FOR 3 SECONDS

Description
Gate control

Date HELP
14/10/2013

Time hh:mm
AT 08:00

Condition
Must be Monday to Friday

Frequency
daily

Commands
out2=1000003

NOWADAYS THE COST OF DATA CONNECTION FROM CELLULAR NETWORK HAVE BEEN REDUCED THANKS TO WIDE DIFFUSION OF SMARTPHONE AND TABLET

FROM M2M TO > IoT • IoW • IoE

LET'S ACTIVATE

WEB SERVICES



WEB
CONFIGURATION



GSM CELL
BASED LOCATION



WEB
CONTROL PANEL



REAL TIME
CLOCK SETTING



SEND AND RECEIVE
TWEETS



SUNRISE / SUNSET
AUTOMATIC UPGRADE



SEND
EMAIL MESSAGES



REMOTE TRACING
(LOG)

Mobi.Control

YOU CAN DISABLE WEB SERVICES FROM ANY MOBILE PHONE BY SENDING A TEXT MESSAGE INCLUDING THE DEVICE PASSWORD (DEFAULT DI FABBRICA = 0000) AND COMMANDS NOAPN

... OR USE MOBI.SUITE TO REMOVE APN SETTING

... OR USE THE WEB CONFIGURATOR TO REMOVE APN SETTING

THE DEVICE WILL REMOVE THE ACCOUNT AND ALL ASSOCIATED INFORMATION

DATA TRAFFIC WILL BE COMPLETELY DISABLED



0000 NOAPN

SISTEMA

🔄 ✓ ⚙️ 🏠 Y002 ✖

APN

~~mobile.operator.it~~

Indirizzo del punto di accesso

APN

Access Point Name

User ID

OPTIONAL

Password

OPTIONAL

Mobi.Control

YOU MAY START CONFIGURING EMAIL SENDING

ENTER THE ADDRESS OF THE OUTGOING MAIL SERVER, THAT CAN BE PROVIDED BY YOUR OPERATOR OR ANY OTHER SERVER AVAILABLE ON THE NETWORK

ENTER THE USER NAME AND PASSWORD IF REQUIRED

IF YOU PLAN TO SEND JUST A FEW EMAILS YOU CAN OMIT THIS CONFIGURATION
IN THIS CASE THE DEVICE WILL USE A DEFAULT SMTP SERVER

SMTP

Outgoing mail server address

User ID

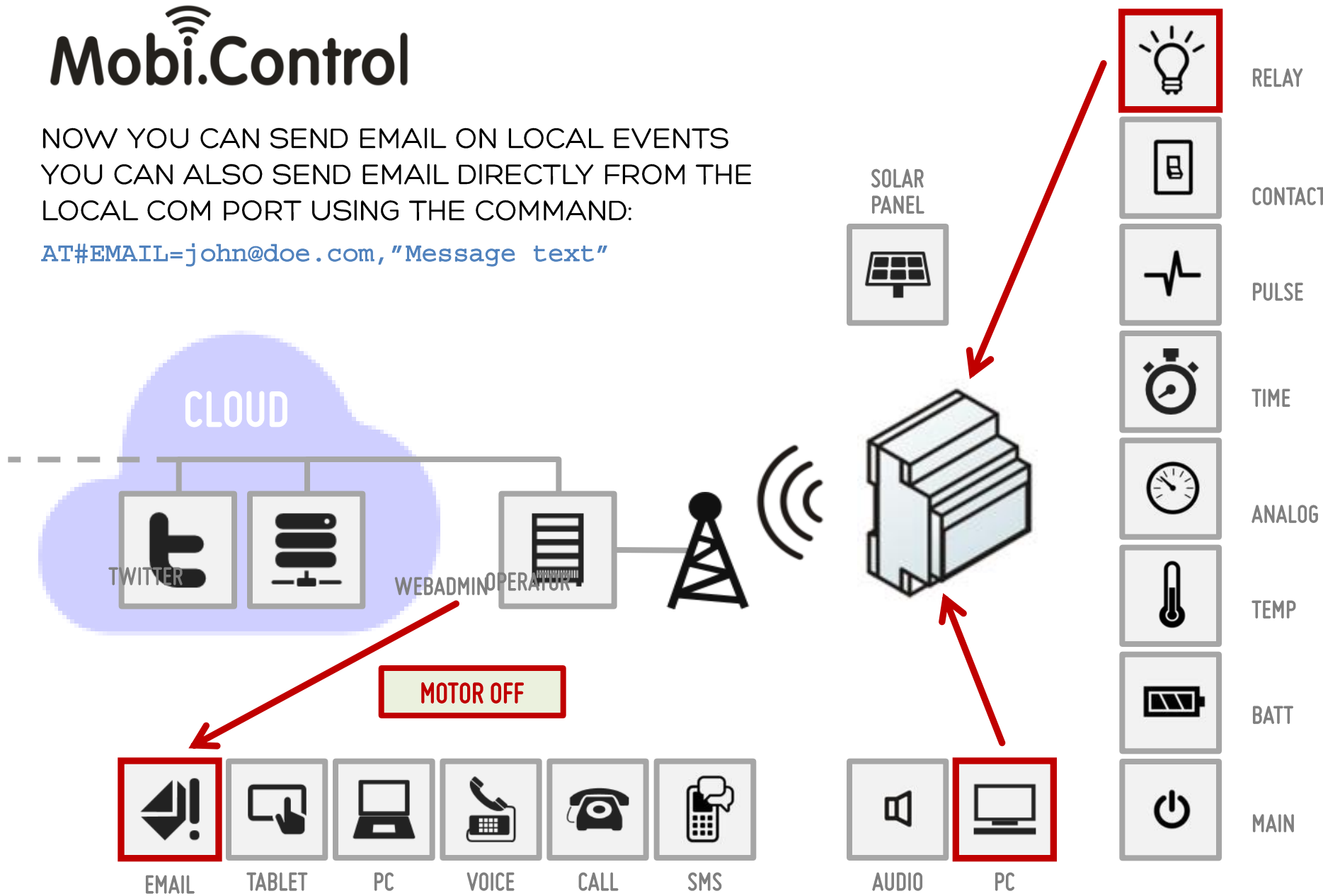
Password

Port

Mobi.Control

NOW YOU CAN SEND EMAIL ON LOCAL EVENTS
YOU CAN ALSO SEND EMAIL DIRECTLY FROM THE
LOCAL COM PORT USING THE COMMAND:

`AT#EMAIL=john@doe.com,"Message text"`



Mobi.Control



THE EMAIL SENT WILL INCLUDE ONLY ACTIVE CHANNELS

THE SUBJECT OF THE MESSAGE WILL INCLUDE THE TEXT DEFINED FOR THE SPECIFIC RECIPIENT


ICONS HELP USERS LOCATE THE EVENT THAT TRIGGERED THE MESSAGE

THERE IS ALSO A LINK TO A PAGE THAT ALLOWS THE LOCALIZATION OF THE DEVICE

OVEN 4
25/10/13 12:48:07

GAS MIN PRESSURE	0
GAS MAX PRESSURE	0
AIR MIN PRESSURE	1
SOUTH GATE	1
NORD GATE	0
ACTIVE PROCESS	1200 min
CLOSED GATE	1000 min
OUTPUT TEMPERATURE	850 °C
INTERNAL PRESSURE	1130 hPa
DAMPER MOTOR	on
LIGHT	off
MAIN	OK
BATTERY	95%

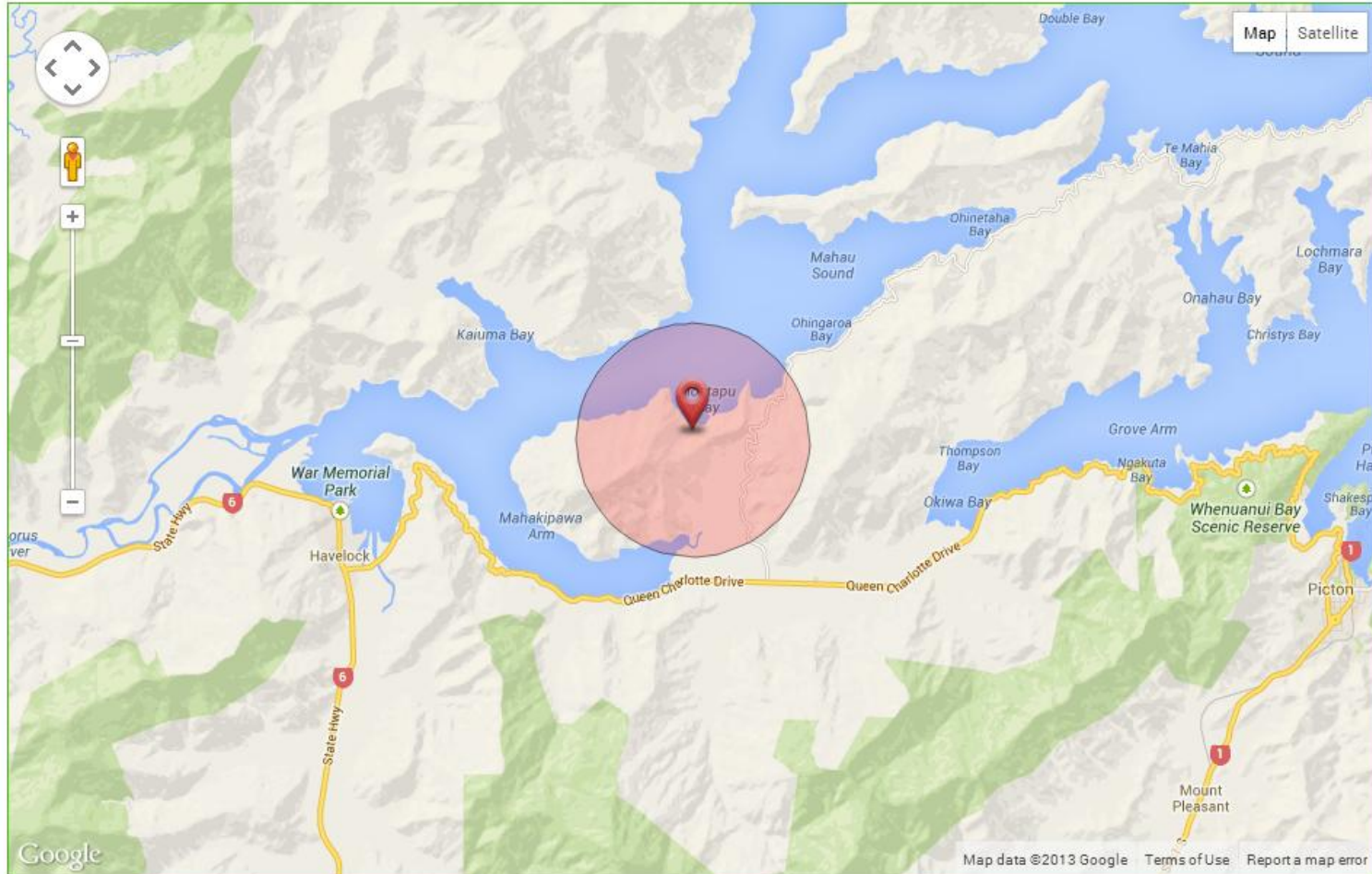


📍 Device Location

Within 2301 m from 236-238 Moetapu Bay Road, Moetapu Bay 7282, New Zealand • Elevation: 68 m

Local Time: 2013-09-27 22:15

Sunrise 2013-09-28 06:06 • Sunset 2013-09-28 18:25



Mobi.Control

IF YOU PLAN TO SEND COMMANDS TO THE DEVICE USING E-MAIL MESSAGES YOU WILL NEED TO DEFINE THE ADDRESS OF THE INCOMING MAIL SERVER AND THE MAILBOX ACCESS PARAMETERS

SET THE INTERVAL AT WHICH THE DEVICE WILL CHECK FOR NEW EMAILS

TO LIMIT THE DATA TRAFFIC THE DEVICE TAKES INTO ACCOUNT ONLY THE SUBJECT OF THE MESSAGE :

- CHECKS FOR VALID COMMANDS IN THE SUBJECT FIELD
- DELETES THE MESSAGE IN THE MAILBOX WITHOUT DOWNLOADING IT TO YOUR DEVICE

POP3

Incoming mail server address

User ID

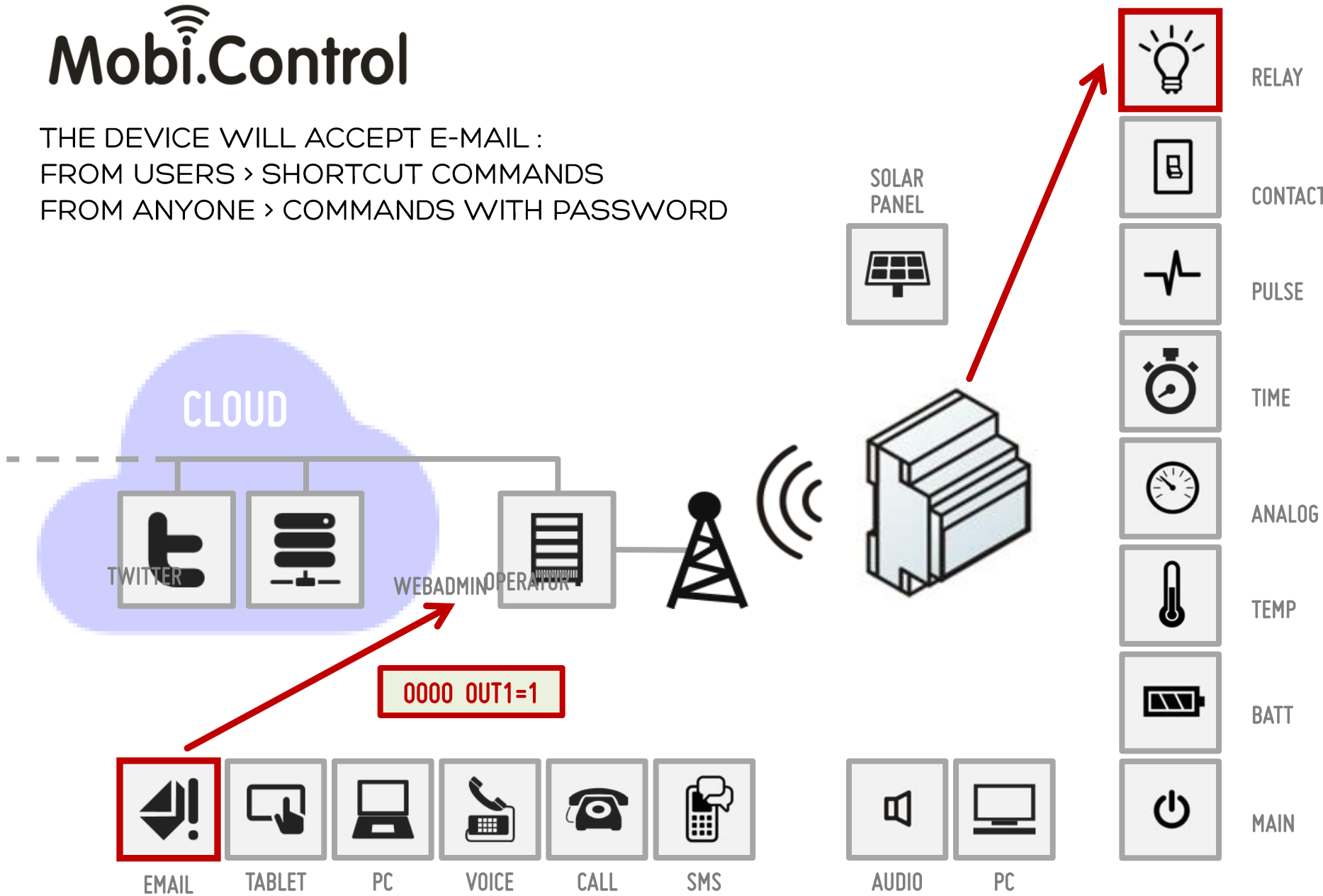
Password

Mailbox monitoring interval

Port

Mobi.Control

THE DEVICE WILL ACCEPT E-MAIL :
FROM USERS > SHORTCUT COMMANDS
FROM ANYONE > COMMANDS WITH PASSWORD



Mobi.Control

YOU CAN DEFINE HOW THE UNIT WILL HANDLE DATA CONNECTION TO HANDLE WEB SERVICES :

- NEVER
- AT EACH INCOMING CALL
- AT EACH LOCAL EVENT
- AT SPECIFIED INTERVAL

THE DEVICE WILL CONNECT ALSO TO KEEP SYNCHRONIZATION TO WEB CONFIGURATION

WEBSERVICES

Trigger mode

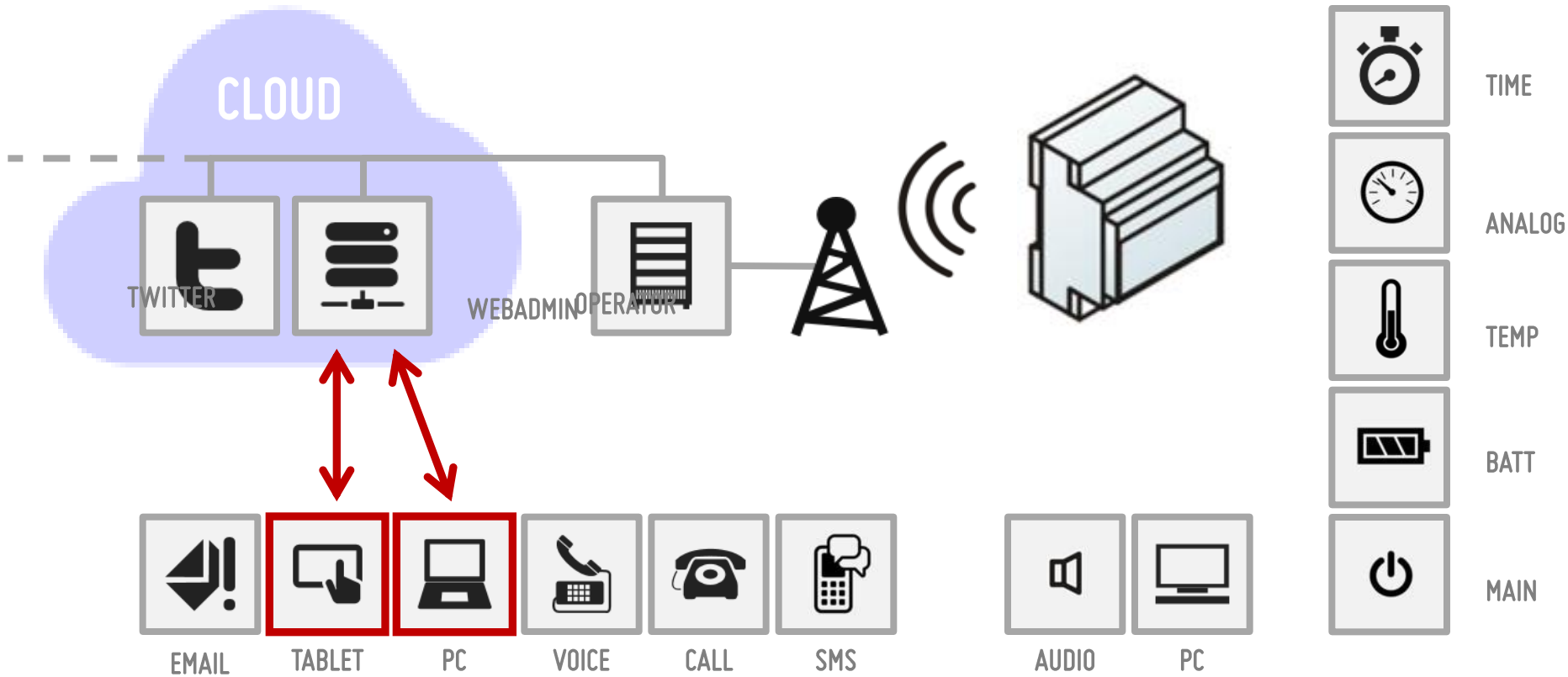
AT ANY LOCAL EVENT

Trace text

WEB LINK

Mobi.Control

GO TO www.webadmin.mobi
FROM PCS, TABLETS, SMARTPHONES, TV ...
TO CONTROL AND MANAGE CONFIGURATION
OF YOUR REMOTE DEVICE



Mobi.Control

WHEN WEB SERVICES ARE ACTIVE,
YOU WILL BE ABLE TO PLAN ACTIVITIES
USING DYNAMIC TIME :

- AT SUNRISE
- AT SUNSET

FOR BOTH YOU CAN SET AN OFFSET
TIME IN ADVANCE OR DELAY.

THE CLOCK IS SYNCHRONIZED EVERY
SUNDAY KEEPING UPDATED
HOURS OF SUNRISE AND SUNSET

PROVIDES ALSO FOR THE AUTOMATIC
CORRECTION FOR SUMMER / WINTER TIME.

Description
Streetlight

Date
20/10/2013

Time ± min
SUNRISE +

Restrict to specific conditions
Must be Monday to Friday

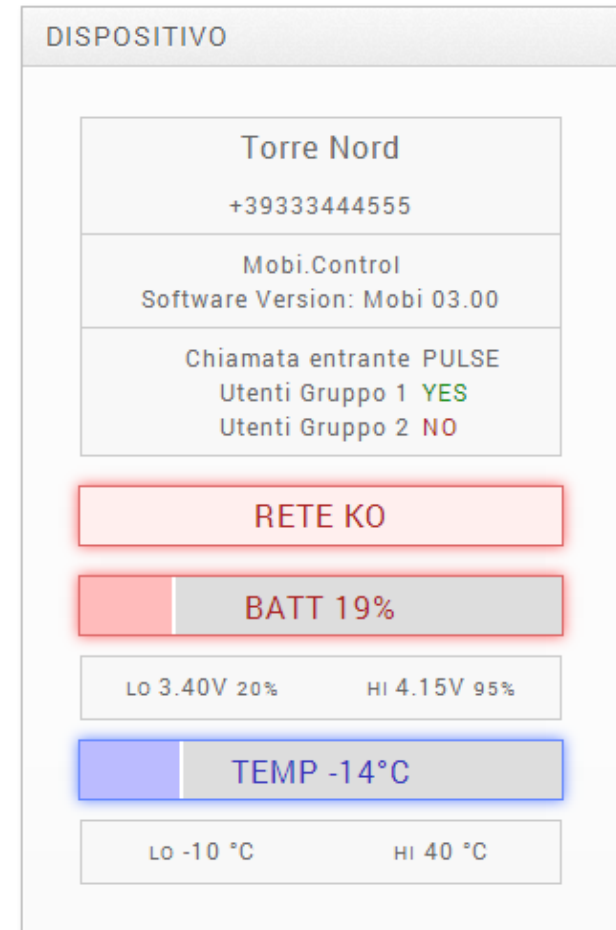
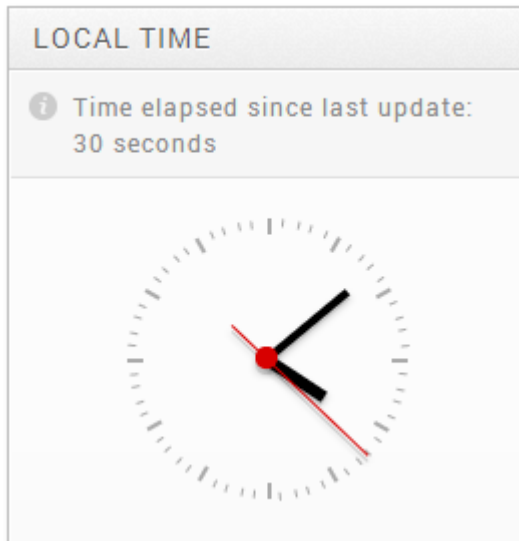
Frequency
daily

Commands HELP
out1=1

Mobi.Control

ONLINE CONTROL INTERFACE OFFERS A DASHBOARD WITH PANELS SHOWING STATUS OF REMOTE DEVICE RESOURCES, YOU CAN ENABLE/DISABLE AND DRAG/DROP ALL PANELS TO BUILD YOUR CUSTOM VIEW

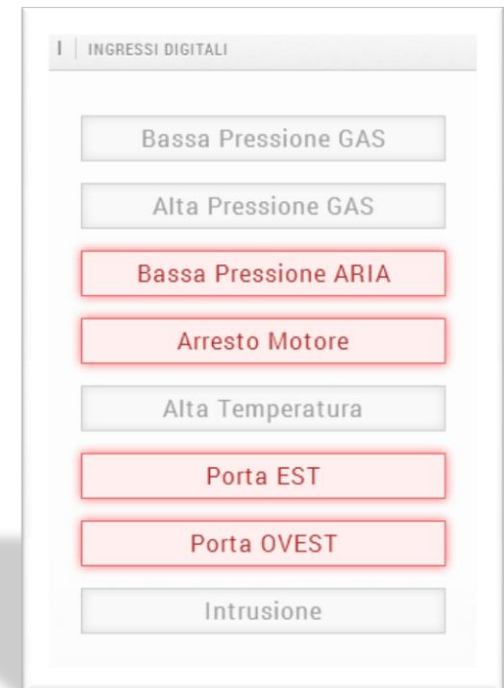
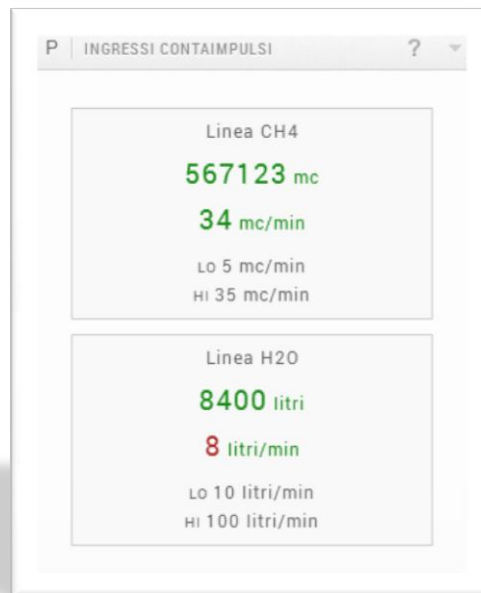
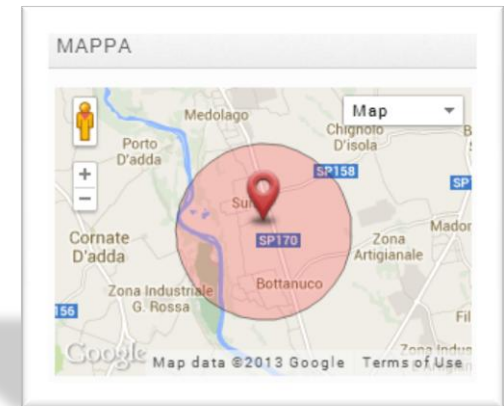
AT RIGHT YOU CAN SEE THE DEVICE INFORMATION PANEL



SINCE THE CONNECTION TO THE DEVICE IS NOT PERMANENT A SPECIAL PANEL SHOWS THE TIME ELAPSED SINCE LAST UPDATE

Mobi.Control

THESE ARE SOME OF THE PANELS THAT SHOW THE STATUS OF RESOURCES ACTIVATED ON THE DEVICE



Mobi.Control

TO KEEP THE UNIT UNDER CONTROL YOU MAY
ACTIVATE THE REMOTE TRACING.

THE UPGRADE WILL TAKE PLACE IN REAL TIME,
REGARDLESS OF THE POLICY SET TO UPDATE
WEB SERVICES

YOU CAN READ THE HISTORY OF THE EVENTS
DIRECTLY FROM THE ONLINE CONTROL PANEL

REMOTE TRACE

Push all events into remote trace

ENABLE

LOG	REMOTE TRACE
26/09/13 17:35:05	WEB LINK
26/09/13 17:34:50	out 2 off
26/09/13 17:34:11	out 1 on
26/09/13 17:31:58	WEB LINK
26/09/13 17:31:19	out 1 off
26/09/13 17:29:30	WEB LINK
26/09/13 17:16:27	A2 > 25 C
26/09/13 17:14:45	out 2 on
26/09/13 17:14:39	out 1 on
26/09/13 17:14:02	gprs ok
26/09/13 17:13:59	gsm ok vodafone IT
26/09/13 17:13:41	Mobi.Control Po...
26/09/13 17:12:44	I8 OPEN
26/09/13 17:12:39	I8 CLOSE
26/09/13 17:12:15	out 2 off
26/09/13 17:12:02	out 1 on

Mobi.Control

A PANEL ALLOWS YOU TO SEND COMMANDS TO THE DEVICE, JUST AS YOU WOULD WITH A TEXT MESSAGE.

THE TITLE BAR SHOWS THE WAY THESE COMMANDS WILL BE DELIVERED TO THE DEVICE :

- **WAIT**
THE COMMANDS WILL BE QUEUED AND DELIVERED TO DEVICE AT FIRST CONNECTION
- **CALL**
COMMANDS ARE QUEUED AND A PHONE CALL WILL TRIGGER THE DEVICE TO FETCH IT
IT IS IMPORTANT THAT THE DEVICE PHONE NUMBER IS PROPERLY CONFIGURED
- **@nomeaccount**
CONTROLS WILL BE SENT DIRECTLY TO TWITTER ACCOUNT ASSOCIATED TO DEVICE
AND SO FORWARDED LIKE SMS
WITHIN THE DAILY LIMIT ALLOWED BY TWITTER

COMMANDS | CALL

ENTER COMMANDS THE SAME WAY YOU DO BY SMS

PUSH

FOLLOWING COMMANDS ARE WAITING TO BE FETCHED BY DEVICE

Mobi.Control

YOU CAN CONFIGURE
THE REMOTE DEVICE
DIRECTLY FROM THE
WEB



Use the top toolbar to
select what you want to
modify

Mobi.Control

This is the configuration
environment associated with your
device.
[HERE](#) you can find the complete
literature.

Device identifier: 012345678901234769030137573423

The size of configuration file is: 12930 bytes

Time elapsed since last change: 48 seconds

Once you completed all your editings click on the button below
to force device connection and download new settings.
Remember to set Device phone number in [System:Device](#).
From [Policies:WebServices](#) you can set how the remote device
will manage the data connection.

SYNC

Mobi.Control

USE THE WIZARD PROVIDED BY [Mobi.Suite](#) TO CREATE A TWITTER ACCOUNT AND ASSOCIATE IT TO YOUR DEVICE

- SEND ALERTS

A SINGLE TWEET CAN REACH MORE RECIPIENTS WITHOUT THE NEED TO SEND MANY SMS: THE MESSAGE WILL BE VISIBLE ON THE DEVICE HOME PAGE AND WITHIN THE TIMELINE OF ANY FOLLOWER

ALL TWEETS SENT WILL BE CHARGED BY THE OPERATOR AS A NORMAL SMS

- RECEIVE COMMANDS

DEVICE WILL RECEIVE AS A TEXT MESSAGE ALL THE TWEETS WHERE ITS ACCOUNT NAME IS NOMINATED: IF THE TWEET IS COMING FROM A RECOGNIZED USER, VALID COMMANDS WILL BE EXECUTED

USUALLY TWEETS RECEIVED FROM THE DEVICE ARE NOT CHARGED, UNLESS THEY ARE ADDRESSED ABROAD CHECK THE CONDITIONS APPLIED FROM YOUR CARRIER

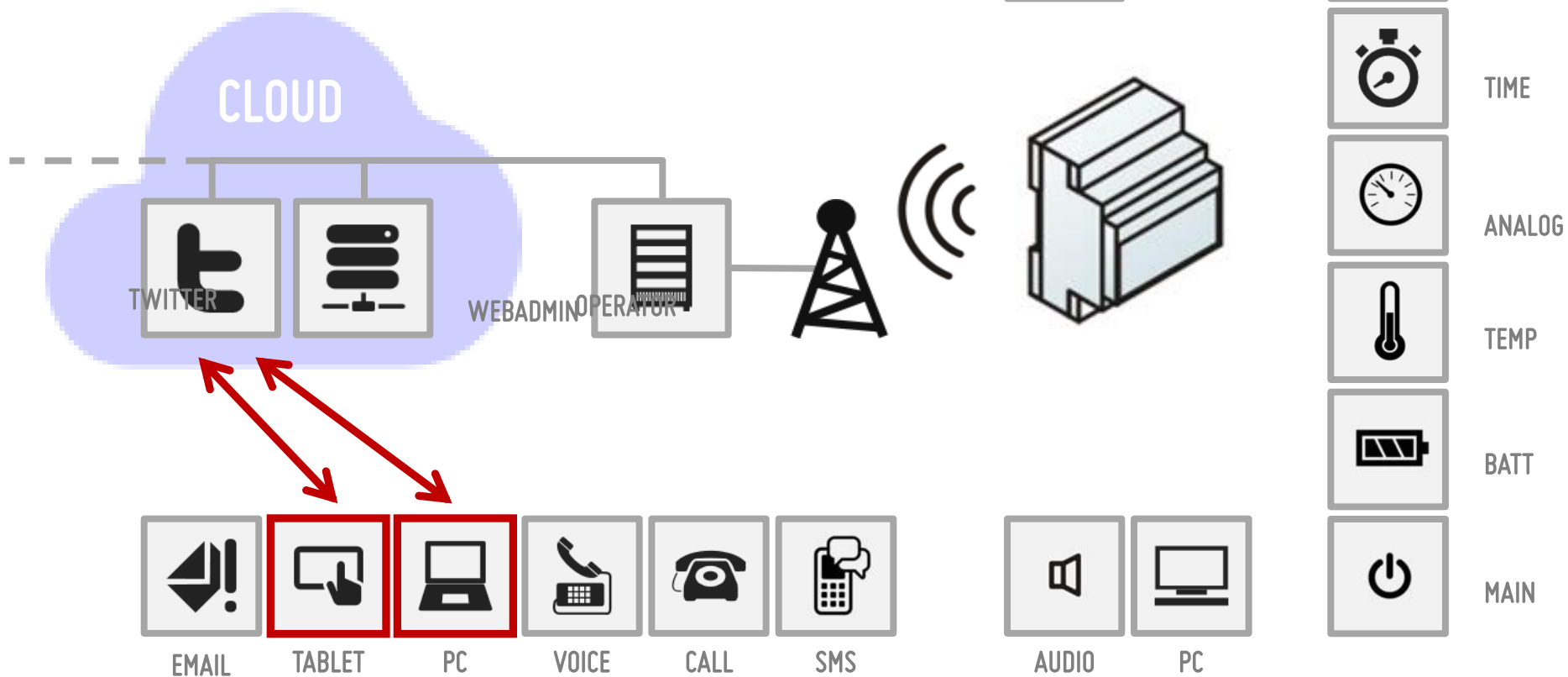
The screenshot shows a window titled 'SISTEMA' with a Twitter logo and 'Y006' in the top right. Below the title bar are several input fields. The first is labeled 'TWITTER'. Below it are three empty input fields. At the bottom right, there is a blue button labeled 'Lista operatori' with a mouse cursor hovering over it. The text 'Lista operatori' is also displayed below the button.

The screenshot shows a window titled 'SISTEMA' with a Twitter logo and 'Y006' in the top right. Below the title bar are several input fields. The first is labeled 'TWITTER'. Below it are three empty input fields. The fourth input field contains the number '3399940424'. At the bottom right, there is a blue button labeled 'Registrazione' with a mouse cursor hovering over it. The text 'Registra nuovo utente Twitter' is displayed below the button.

The screenshot shows a window titled 'SISTEMA' with a Twitter logo and 'Y006' in the top right. Below the title bar are several input fields. The first is labeled 'TWITTER'. Below it are three empty input fields. The fourth input field contains the number '3399940424'. At the bottom right, there is a blue button labeled 'Registrazione'. Below the button, there is a green bar.

Mobi.Control

YOU CAN NOW INTERACT WITH THE REMOTE DEVICE DIRECTLY FROM YOUR TWITTER ACCOUNT
YOU CAN USE ALL THE TWITTER AVAILABLE APPS TO FURTHER EXTEND THE POSSIBILITIES OF CONTROL AND SUPERVISION

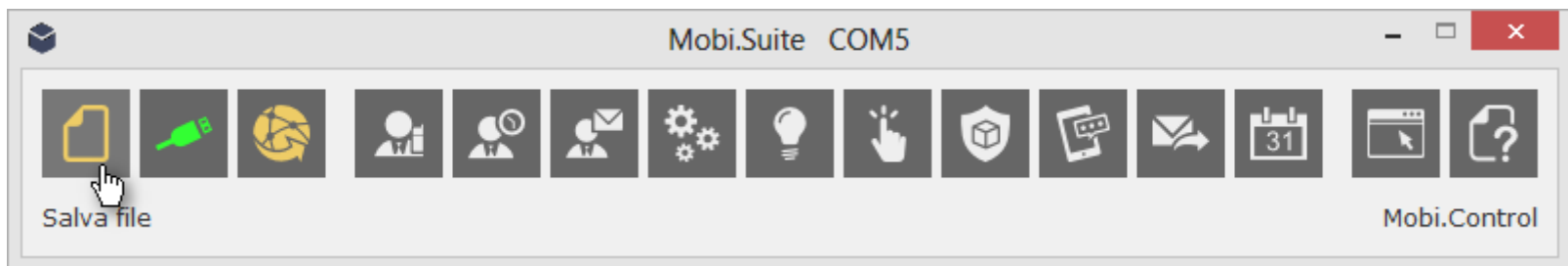
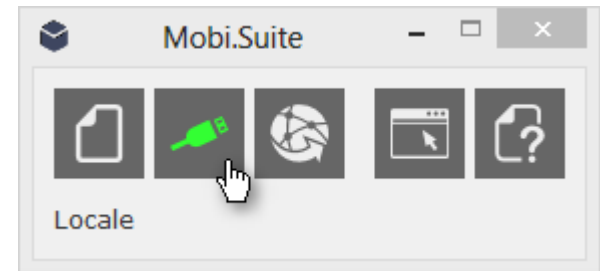


Mobi.Suite

USING [Mobi.Suite](#) YOU CAN ACCESS THE DEVICE THROUGH THE LOCAL PORT FOR CONFIGURATION AND DIAGNOSIS.

YOU CAN SAVE DEVICE SETTINGS TO A FILE.

YOU CAN MODIFY ALL CONFIGURATION PARAMETERS, ADDING USERS, RECIPIENTS, PLANNED OPERATIONS, SHORTCUT COMMANDS, OPERATING RULES, SETTING INPUTS / OUTPUTS, SMS INTERACTIVE FORWARDING INCOMING MESSAGES, SCHEDULED TASKS ...





YOU CAN ALSO UPDATE A DEVICE BY
SENDING A TEXT MESSAGE
CONTAINING THE NEW SETTINGS FOR
EACH PARAMETER CHANGED.

Mobi.Suite SHOWS THE TEXT
MESSAGE TO BE SENT TO THE
REMOTE DEVICE

NO NEED TO COMPOSE A MESSAGE
IF YOU HAVE A SMARTPHONE,
JUST SCAN THE QR CODE



Mobi.Suite

A TERMINAL EMULATOR IS AVAILABLE TO INTERACT DIRECTLY WITH THE DEVICE CONNECTED TO LOCAL COM PORT::

- SELECT RADIO BAND
- LISTEN AUDIO MESSAGES
- SET CLOCK
- ASK FOR DEVICE STATUS
- ASK FOR CALLERS LIST
- ASK FOR EVENT MEMORY (LOG)
- TURN OFF DEVICE
- CUSTOM VOICE MESSAGE GENERATION
- GET LATITUDE AND LONGITUDE OF MAIN GSM CELL
- ENTER COMMANDS



Mobi.Terminal 1.0.0.0

COM5

```
02/10/13 00:00:24 gsm ok I TIM
02/10/13 00:00:27 gprs ok
02/10/13 00:01:26 Mobi.Control Power On
02/10/13 00:01:43 gsm ok I TIM
02/10/13 00:01:46 gprs ok
02/10/13 00:01:26 Reset:2,2;0,0,2,0,3,0,1,0,0,0,15,2,0,0,0
02/10/13 00:03:41 Mobi.Control Power On
02/10/13 00:03:56 gsm ok I TIM
02/10/13 00:04:00 gprs ok
02/10/13 00:05:56 Mobi.Control Power On
02/10/13 00:06:13 gsm ok I TIM
02/10/13 00:06:17 gprs ok
01/10/13 23:58:11 Mobi.Control Power On
02/10/13 11:14:30 gsm ok I TIM
02/10/13 11:14:34 gprs ok

OK
|
```

Spegnimento dispositivo (rimuovendo l'alimentazione principale)