



## USER INFORMATION

# CMS-10R



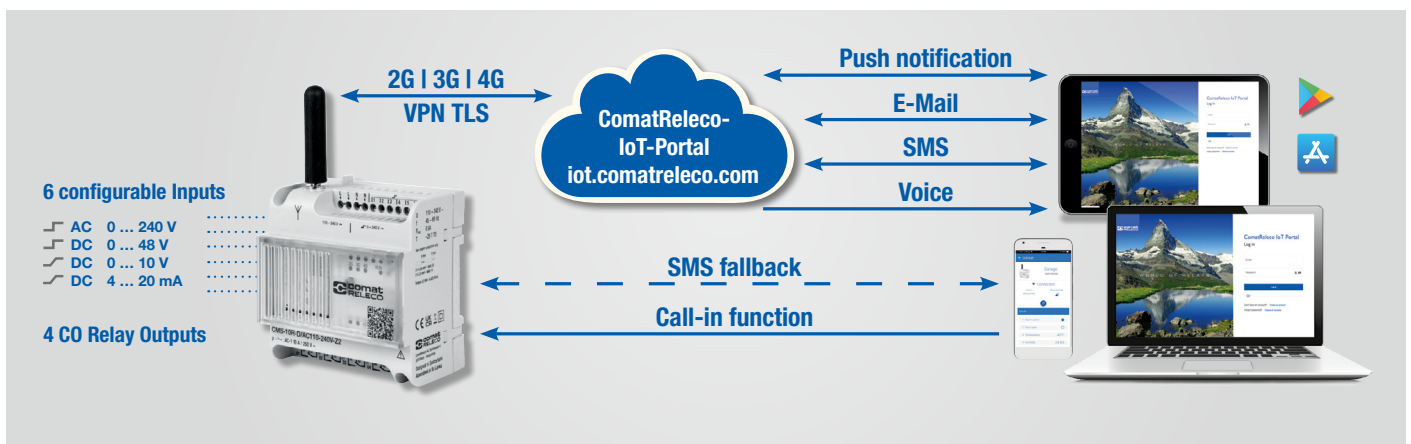
### Index

### Page

1. System Overview	3
2. Communication Channels	5
3. IoT Portal <a href="https://iot.comatreleco.com">https://iot.comatreleco.com</a>	6
4. Setup a device	16
5. Use the device	27
6. Application Examples	32

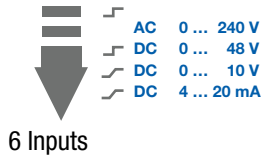
## More than a simple SMS relay

### ComatReleco Messaging System CMS-10R



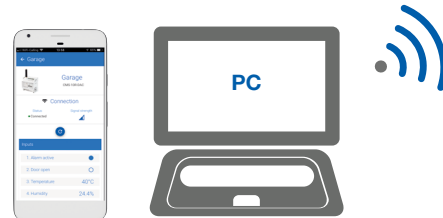
## Digital and analog inputs:

Three device types are available, with different inputs.



## Plug and Play:

Wireless programming via the internet with PC, smart phone or tablet.



## App and E-Mail, additionally SMS:

You will be alerted by push notification and remote control is carried out via app. Communication via SMS can also be activated.



## Easy device swap:

Upload the existing configuration file to the new CMS-10R.



## All in one:

The CMS-10R has full out-of-the-box functionality. Mobile communication is included.



## ComatReleco Messaging System CMS-10R

The CMS-10R is a remote monitoring and control system for industrial and building technology. It reports status changes of the digital or analogue inputs via the mobile network through push notification, e-mail or SMS. Each output can be controlled separately by push notification via web browser or smart app. If required, the configured outputs can also be switched with a call-in function (call to the device) or sending an SMS. The CMS-10R automatically selects the network generation with the highest field strength on site.

# 1. System Overview

## Main differences to older version of CMS

### CMS-10F



- 2G communication.
- Separate SIM card from a Mobile service provider of your choice.
- Communication costs incurred by service provider.
- Configuration via RS232 cable link.
- Size 88 x 90 x 55 cm.
- Different hardware versions with 6 inputs / 4 outputs.
- Notification and control via SMS.

### CMS-10R

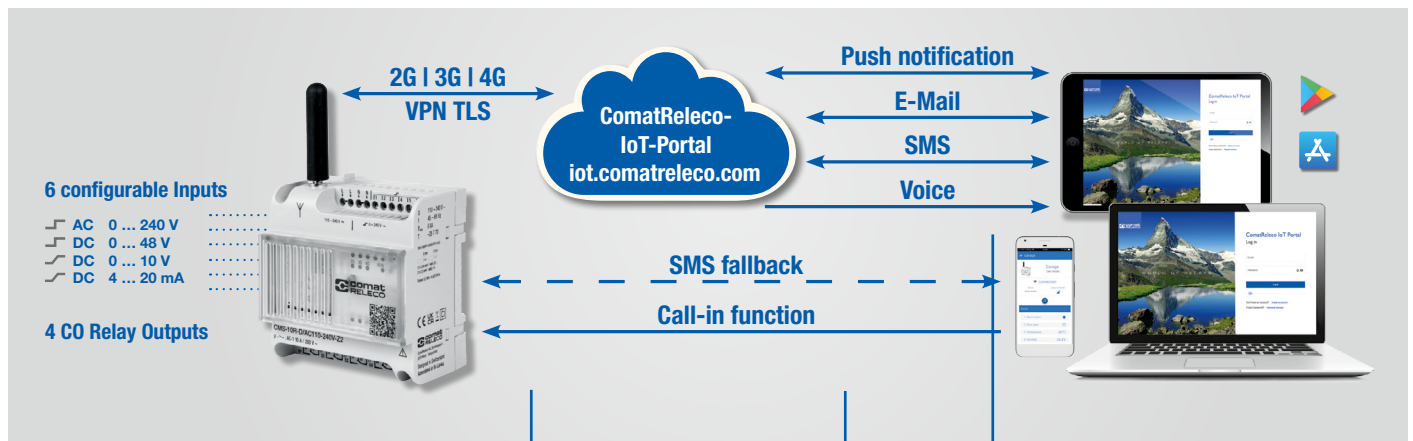


- 2G, 3G and 4G communication.
- Integrated eSIM, works worldwide.
- Communication costs covered with the chosen service profile from ComatReleco IoT portal.
- Configuration via IoT portal. Configurations from old devices can be overtaken.
- Same size.
- Matching hardware versions available
- Wiring schematics remains the same as with CMS-10F, one-to-one replacement.
- Notification and control via email, push and SMS. Call-in and fall-back functions included.





### ComatReleco Messaging System CMS-10R



The **CMS-10R** unit receives SMS messages with the unique unit phone number from the integrated eSIM. Same number is valid for **Call-in** and **SMS fallback**.

**SMS fallback** is used in the rare occasion when the IoT portal is not available, i.e. during this time, SMS will be sent instead of email and push notifications.

The **ComatReleco-IoT-Portal** transmits SMS messages by default \* with the number **+41 79 807 55 54**

SMS messages to **machines** are sent by default \* with the number **+41 79 807 20 06**

We recommend to store this numbers on the mobile phone under the name «CoReM»

\* For large projects, it is possible to create customer, local numbers at additional cost.



The number of the **CMS-10R** unit can be found on the overview of the unit in the IoT-Portal.

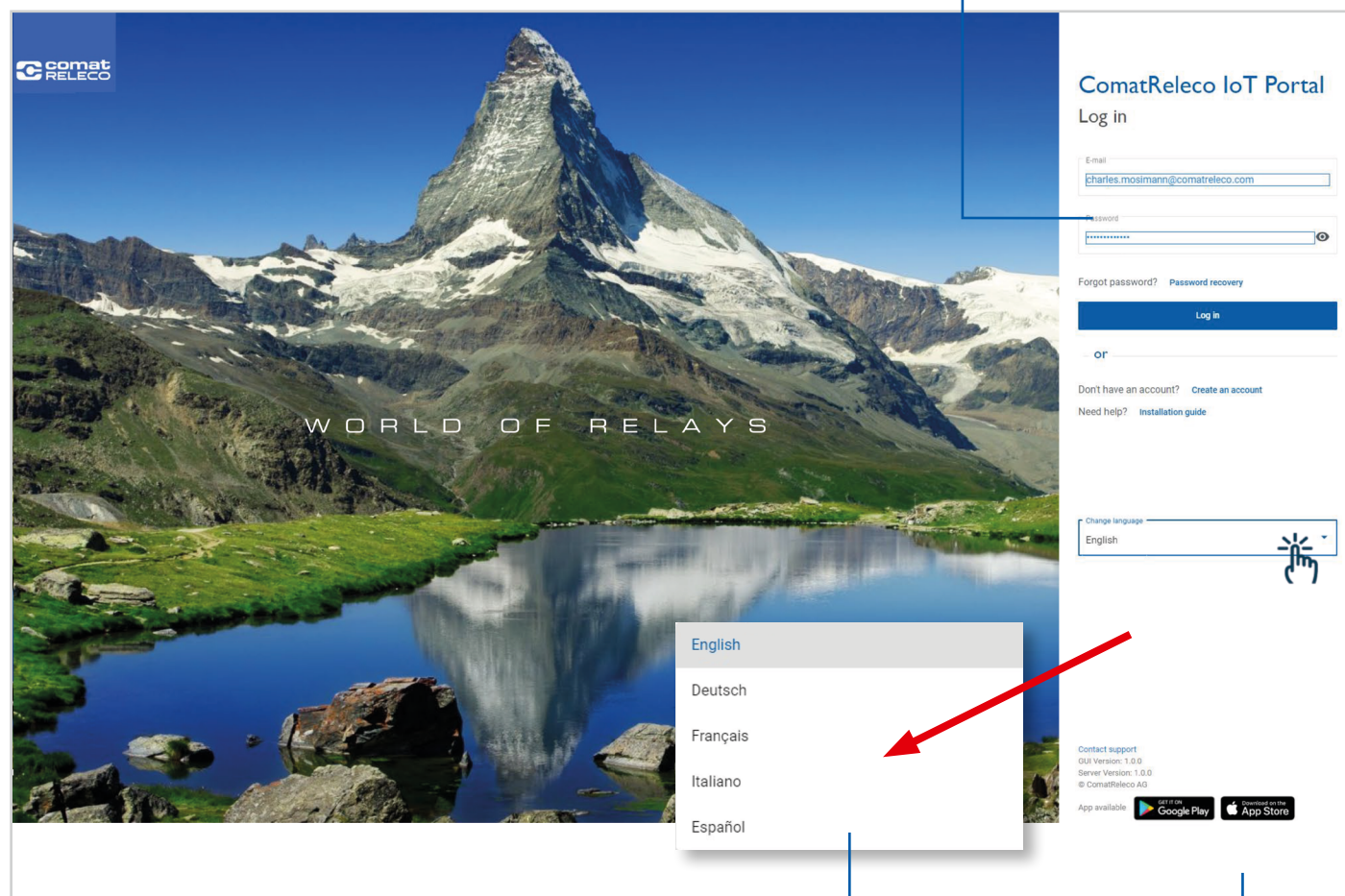
Example:  
**+41 77 129 24 10**

We recommend to store this number on the mobile phone under the device name.

## 3. IoT Portal

<https://iot.comatreleco.com>

All users need to have an account. Installers/owners also have the possibility to create user accounts, see page 15. Exceptions are «machines» as defined on page 16.



Choose the language

Apps are available for Android and Apple.

## 3. IoT Portal

### User account

**ComatReleco IoT Portal**  
**Create an account**

\* = Mandatory fields

Change language  
English

Country \*

Company

VAT number

First Name \*

Last name \*

Address \*

Building

Zip code \*

City \*

Mobile phone number \*

E-mail \*

Password \*

Confirm password \*

☐ I have read and I accept the privacy statement.  
[Privacy statement](#)

Create an account

Defines the language of the IoT portal (can later be changed)

The country code influences the billing of the service profile

VAT number: Needed for businesses who claim VAT back

Postal address

International Format: +41 23 123 45 67 (where messages from CMS-10R are being sent to)

E-mail address: (where e-mails from CMS-10R are being sent to)

# 3. IoT Portal

## Account overview

### My owned devices:

The devices I pay the invoice for with my account.

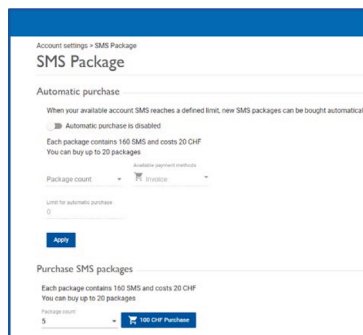
### My assigned devices:

Devices from another Account which I am a user of.

### My installed devices:

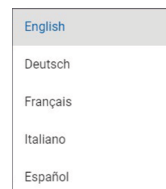
Devices I am the installer for, I can be the owner or someone else.

### Buy SMS package



Shows the number of SMS available for the account (for all devices under this account).

### Change language



ComatReleco IoT

Account SMS available: 141English

Charles Mosimanncharles.mosimann@comatreleco.com

Devices

5 Devices

Search

☒ My owned devices☒ My assigned devices☒ My installed devices

+ Add a device

Disable notifications

Name	Device model	Owner's e-mail	Status	Service profile	Expires on	SMS available for this month	Firmware
Test Devic Zone1	CMS-10R-D	charles.mosimann@comatreleco.com	Last connection : 2/20/20, 9:57 AM	CH-Standard		10 / 10	0.2.1
Testbox Charles	CMS-10R-DA	charles.mosimann@comatreleco.com	Connected	CH-Standard	1/28/21	10 / 10	1.0.0
CoRe Test Device	CMS-10R-DA	daniel.herren@comatreleco.com	Not paired				
CoRe Webinar Device	CMS-10R-DA	daniel.herren@comatreleco.com	Connected	CH-Professional	2/9/21	30 / 30	1.0.0
Test Koffer CoRe 1	CMS-10R-DA	daniel.herren@comatreleco.com	Connected	CH-Standard	12/8/20	0 / 10	1.0.0

Status information

Service Profile

Included SMS available for the device per month, depending on the service profile.

# 3. IoT Portal

## Device overview

Choose a device in the account overview

ComatReleco IoT

Account SMS available: 141 English

Charles Mosimann  
charles.mosimann@comatreleco.com

Devices

Search

☒ My owned devices  
☒ My assigned devices  
☒ My installed devices

+ Add a device Disable notifications

Name	Device model	Owner's e-mail	Status	Service profile	Expires on	SMS available for this month	Firmware
Test Device Zone1	CMS-10R-D	charles.mosimann@comatreleco.com	Last connection : 2/20/20, 9:57 AM	CH-Standard		10 / 10	0.2.1
Testbox Charles	CMS-10R-DA	charles.mosimann@comatreleco.com	Connected	CH-Standard	1/28/21	10 / 10	1.0.0
CoRe Test Device	CMS-10R-DA	daniel.herrn@comatreleco.com	Not paired				
CoRe Webinar Device	CMS-10R-DA	daniel.herrn@comatreleco.com	Connected	CH-Professional	2/9/21	30 / 30	1.0.0
Test Koffer CoRe 1	CMS-10R-DA	daniel.herrn@comatreleco.com	Connected	CH-Standard	12/8/20	0 / 10	1.0.0

Managers

Device details

Connectivity


ComatReleco IoT

← Home Account SMS available: 141 English Charles Mosimann charles.mosimann@comatreleco.com

Start support session Refresh

Devices > Testbox Charles > Overview

**Overview**

 **Testbox Charles**  
CMS-10R-DA CH-Standard

**Managers**  
Owner: Charles Mosimann  
Installer: Charles Mosimann

**Device**  
Serial number: 1945VS000111  
SMS available for this month: 10/10 (Reset on Oct 29, 2020)  
Number of monthly events: 556/600 (Reset on Oct 29, 2020)  
Firmware: 1.0.0

**Connection**  
Connection status: Connected  
Mobile network: 4 (-81 dBm)  
Swisscom  
Phone number: +41 77 129 24 10

**Support**  
Distributor: ComatReleco AG  
E-mail: support@comatreleco.com  
Phone number: +41 31 838 55 10

**Inputs**

1. Potentiometer	0 %
2. Temperature	23.32 °C
3. Button	<input type="radio"/>
4. Switch for Output LED blue	<input type="radio"/>
5. Magnet	<input checked="" type="radio"/>


Last update: 10/27/20, 10:51 AM

**Outputs**

1. LED green	<input type="checkbox"/>
2. LED blue	<input type="checkbox"/>
3. Flashlight	<input type="checkbox"/>
4. Fan	<input type="checkbox"/>

Last update: 10/26/20, 11:21 PM

**Documents**

CMS-10R Documentation 

**Test**

Test button status (press button on your device) ☐

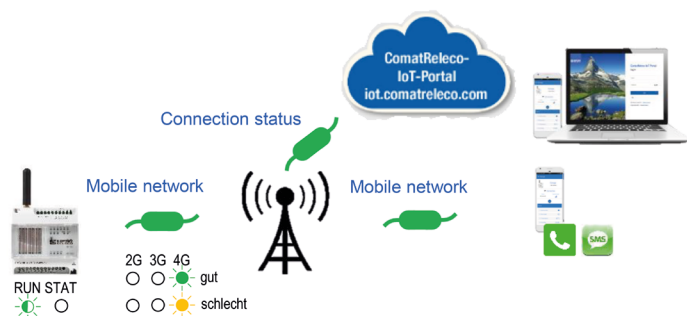
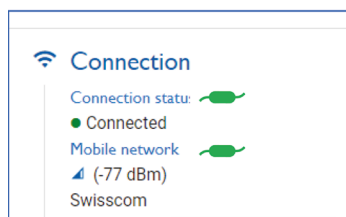
Link for documentation and release information.

I/O monitoring/control

# 3. IoT Portal

## Device Connection (Fallback Mode)

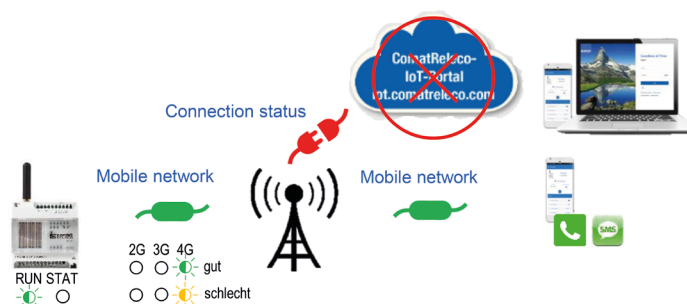
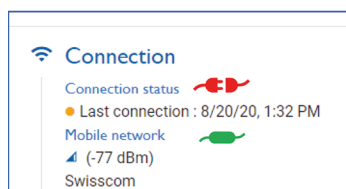
### Normal operation



### IoT portal is not available

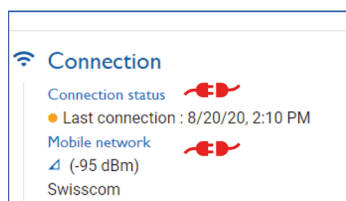
Device switches to Fallback Mode, i.e., during this time, SMS will be sent instead of email and/or push notifications.

see next page

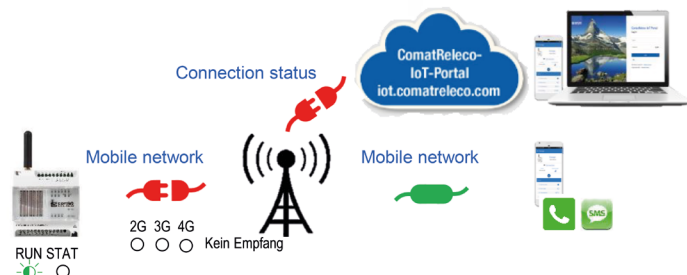


### No or very poor connection with mobile network.

Events are stored in the device and sent once connection is re-established.



Signal strength	3G [dBm]	4G [dBm]
Not connected	< -103.7	< -93.3
Poor	< -90	< -80
Good	> -90	> -80
Excellent	> -75	> -70



## 3. IoT Portal

### Device in Fallback Mode

In the unlikely case the device is in Fallback Mode and you might need to switch one or more outputs during this time, configure the device in advance accordingly.

Time after the activated output will be switched off again (00:00:01 to 23:59:59 hours possible). **Must** be defined by Call-in activation.

The screenshot shows the 'LED green' configuration page in the ComatReleco IoT portal. The page is divided into several sections:   
- **Device Overview:** Shows 'LED green' as 'Active' with a toggle switch.   
- **Auto turn off:** A field set to '00:00:10' with a label 'Time after which the output will be turned off automatically'.   
- **Events:** Two sections for 'Output on' and 'Output off', each with a 'Message' input field.   
- **SMS control:** A section for 'SMS control messages' with input fields for 'Output on' (set to 'on') and 'Output off' (set to 'off'). It also has checkboxes for 'Send confirmation' and 'Allow registered numbers only'.   
- **Phone control:** A section with a 'Control by call-in' toggle and a 'Turn on by call-in' input field.   
- **Notifications:** A section for 'Users / Machines' with a 'Message receiver (5 max.)' list showing '1. Charles Mosimann (push)' and a 'Find user / machine' search field. It also has a 'Confirmation' section with a 'Waiting time to confirm' field (set to 5) and a 'Max. number of loops' field (set to 1).   
- **Top Bar:** Includes 'ComatReleco IoT', 'Home', 'Account SMS available: 141', 'English', and user information 'Charles Mosimann charles.mosimann@comatreleco.com'.

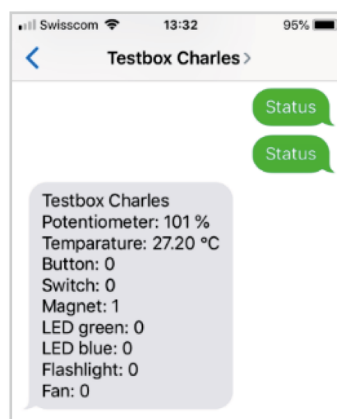
❗ For security, the message can have a form of a password or similar, e.g. +23@LED\_on

❗ As another security measure, you can choose that only registered users can control it.

It is possible to control the output with an SMS message.

It is possible to control the output by call-in, i.e. call the phone number of the device.

❗ As a security measure, by default, only registered users can control it.



In Fallback mode a SMS message «Status» can be sent to the device, it returns the status of all inand outputs.



## 3. IoT Portal

### Add a device to your account

The screenshot shows the ComatReleco IoT portal interface. At the top, there's a header with the logo, account information (Charles Mosimann, charles.mosimann@comatreleco.com), and language settings (English). Below the header, there's a 'Devices' section with a search bar and filters for 'My owned devices', 'My assigned devices', and 'My installed devices'. A table lists 5 devices with columns for Name, E-Mail Adresse des Besitzers, Status, Service profile, expires on, SMS available for this month, and Firmware. A red arrow points to the 'Add a device' button in the top right corner. A modal window titled 'Add a device' is overlaid on the screen, showing two options: 'Set up a new device' (with a gear icon) and 'With invitation code' (with an envelope icon). Below the modal, two blue lines point to explanatory text.

**Add a device**

You can choose to setup a new device or to add a device to your account with an invitation code

**Set up a new device**

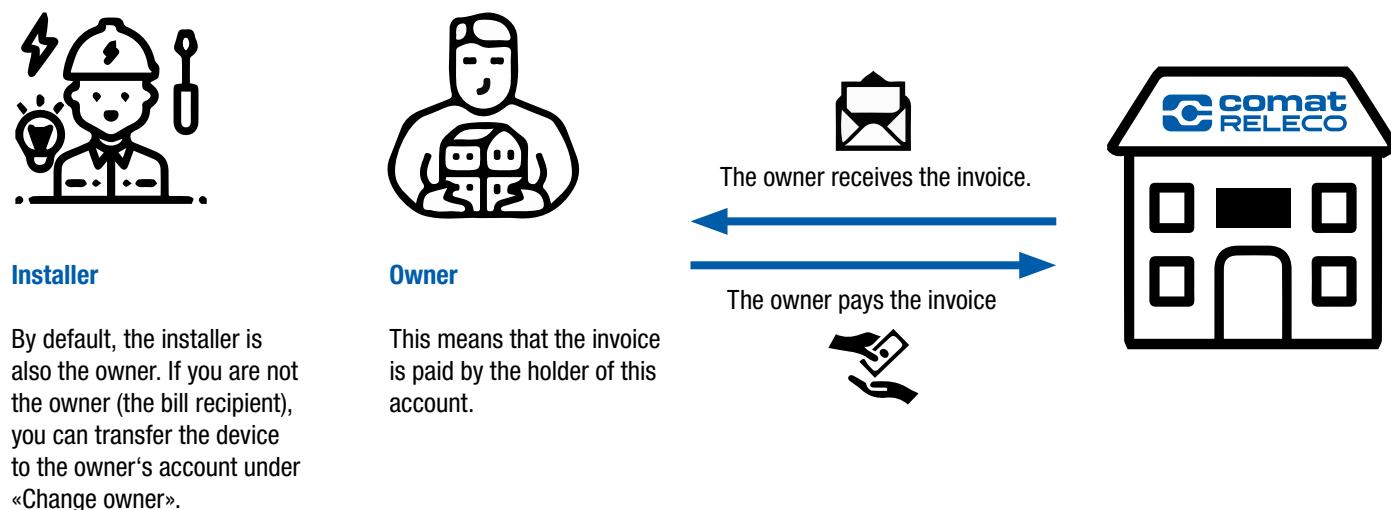
**With invitation code**

- Set up a new device ... (see next slide)
- Accept and add a device to your account with an invitation code from another account (assigned device). The code has been received by e-mail or SMS.

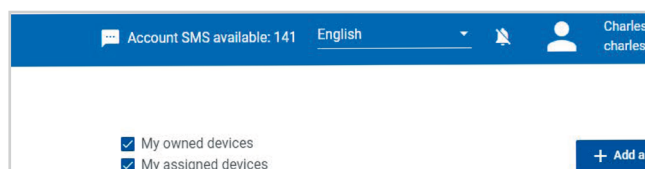


### 3. IoT Portal

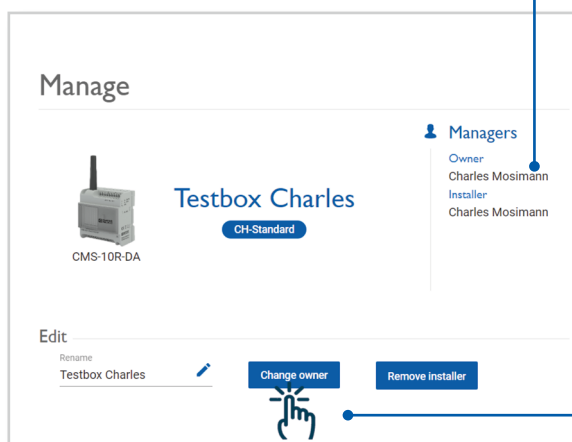
#### Roles / Business relationship with ComatReleco



Bought SMS packages on the account cannot be transferred to another account.



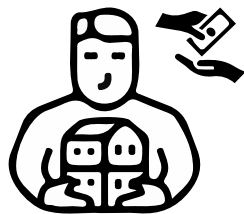
Under «Manage» on the IoT Portal you can see who the installer and the owner of the device is.



If the owner is wrong (the invoice recipient), it can be changed here.

### 3. IoT Portal

#### Setup a new device



- Choose if you are the owner, i.e. it will be your account paying the invoice, or not.

**1. Define the owner**  
Add an owner for the device.

Are you the owner of the device? ☒ Yes ☐ No

Cancel Next

**1. Define the owner**  
Add an owner for the device.

Are you the owner of the device? ☐ Yes ☒ No

Owner's e-mail

[Existing user](#)

Cancel Next

- Enter a device name (notifications and messages are being sent with this name).

**2. Give the device a name**  
It is important that the device has a name, the name will appear on the device overview

Device name

Device model 

CMS-10R-D  
CMS-10R-DA  
CMS-10R-DAC

Cancel Next

- Choose the model.

- If you are not the owner, you have to enter a valid e-mail address of the owner, he will then receive an email to accept the ownership. In this case you are the inststaller for someoneelses device.

**3. Confirmation**  
Thank you, this device is ready to be used.

Congratulations, a new device has been created

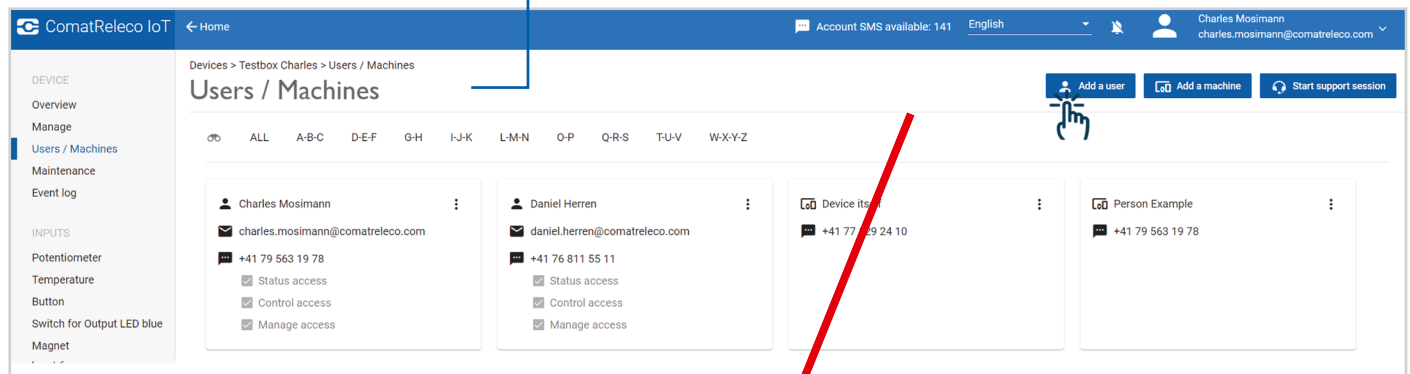
[Pair](#) [Configure](#) [Home page](#)

- You can now choose to Pair, Configure the device or go back the overview (Home page)

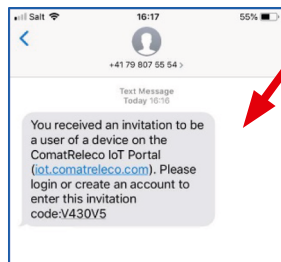
### 3. IoT Portal

#### Add another user to use a device

Number of users / Machines according service profile (4,10,30).



Invite another user to use your device either by e-mail or SMS. The invited user receives a code to add the device in his account.



The screenshot shows the 'Invitation' and 'Privileges' forms. The 'Invitation' form has radio buttons for 'SMS' and 'E-mail', a text input for 'E-mail', and a 'Create an account' button. The 'Privileges' form has checkboxes for 'Status access', 'Control access', and 'Manage access', and buttons for 'Exit' and 'Send invitation'.

Installer/Owner has here the possibility to create an account for another user.

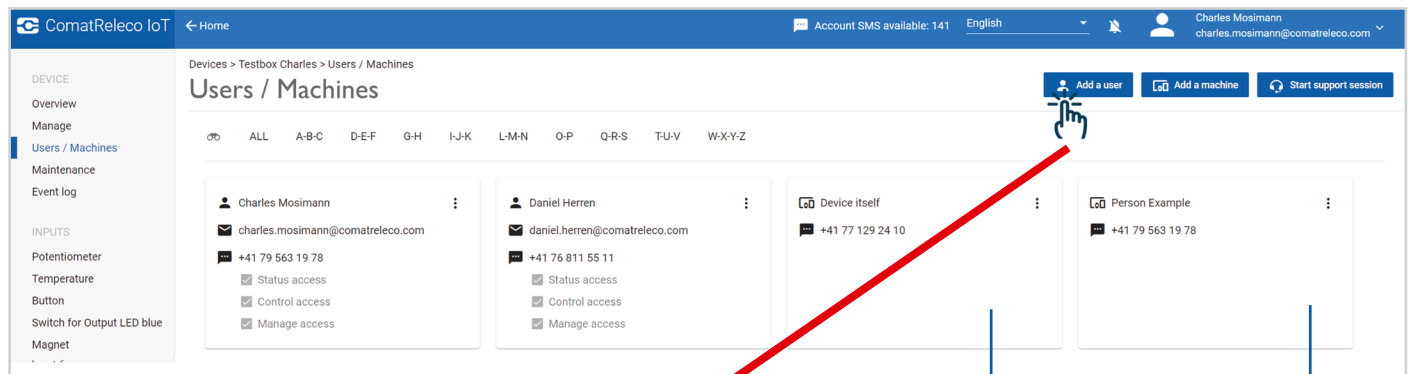
Different access levels can be chosen for the user.



The screenshot shows the 'Create account' form. The form has fields for First Name, Last Name, E-mail, Mobile phone number, Country, Language, Zip code, City, Address, Building, Company, VAT number, Password, and Confirm password. There are 'Cancel' and 'Create account' buttons at the bottom.

## 3. IoT Portal

### Add a «machine» to use a device



Is the user not a human being, e.g. an alarm server, or other machine, to receive messages, it can be added here. It needs at least a **phone number or an e-mail address**.

The 'Create machine' form contains the following fields:

- Machine name \* (Text input)
- Machine model (Text input)
- Phone number \* (Text input)
- Confirm phone number \* (Text input)
- E-mail address (Text input)
- Confirm e-mail address (Text input)

Below the form, there is a section for sending a test SMS:

You can send a test SMS to this machine.

Test message (max. 30 characters) (Text input)

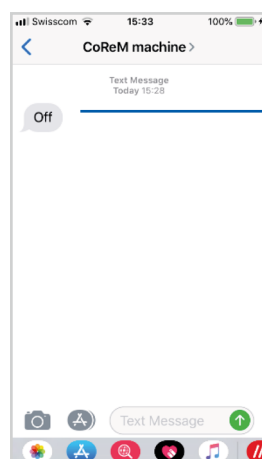
Send (Button)

Exit (Button) Create machine (Button)

It is also possible to define a **CMS-10R itself as a machine**, making it a very simple control system (see also page 34).

It is also possible to define a **person as a machine to receive SMS only**, without having to fill in all information needed for a User. They could then also send SMS to the device or call in to activate an output.

#### SMS to machine



SMS to machine is sent **without header and timestamp**, so it is compliant to most machines, such as Alarm servers, etc.

## 4. Setup a device

### Configure a device

Go to «Manage»  
on your device.

The screenshot shows the 'Manage' page for a device named 'Testbox Charles' (CMS-10R-DA). The page is divided into several sections: 'Managers' (Owner: Charles Mosimann, Installer: Charles Mosimann), 'Device' (Serial number: 1945VS000111, SMS available for this month: 10/10, Number of monthly events: 578/600, Firmware: 0.3.0), 'Connection' (Status: Connected, Mobile network: Swisscom, Phone number: +41 77 129 24 10), and 'Support' (Distributor: ComatReleco AG, E-mail: support@comatreleco.com, Phone number: +41 31 838 55 10). Below these sections are 'Edit' options (Rename, Change owner, Remove installer), 'Device time zone' (UTC time zone: UTC+01:00), and 'Events' (Startup, Connected, Shutdown, Notifications, Disconnected, Reset button, Period event count reached). Each event has a message field. At the bottom right, there is a 'Close' button and an 'Apply' button. A blue line with a dot points from the 'Apply' button to the text '«Apply» to save changes.'

On this page you can  
configure all status  
messages of the device.



The device itself is set to UTC (GMT),  
<https://www.timeanddate.com/worldclock/>,  
therefore, set the time zone where you are,  
UTC+/-x, to have the correct time of the event.

«Apply» to save  
changes.

## 4. Setup a device

### Configure a device

Choose the input you want to configure.

Activate the input to use it.

Choose Analog or Digital.

The screenshot shows the 'Button' configuration page in the ComatReleco IoT web interface. The breadcrumb trail is 'Devices > Testbox Charles > Button'. The left sidebar contains a navigation menu with sections: DEVICE (Overview, Manage, Users / Machines), INPUTS (Potentiometer, Temperature, Button, Switch, Magnet contact, Input 6), OUTPUTS (LED green, LED blue, Case light, Fan), and SERVICE PROFILE (Service profile). The main content area is titled 'Button' and shows 'Input 3'. It includes a 'Status' toggle set to 'Active', a 'Name' field with 'Button', and a 'Type' selector with 'Analog' and 'Digital' (selected). Below is a 'Value' section with a 'Trigger window [s]' field set to '1.0'. The 'Events' section has two cards: 'Input high' with a message 'has been pressed' and 'Input low' with a message 'has been released'. On the right, the 'Notifications' section is expanded, showing 'Users / Machines' (Message receiver (5 max.)), a search field, a 'Confirmation' toggle, 'Waiting time to confirm' (5), and 'Max. number of loops' (1). At the bottom right are 'Close' and 'Apply' buttons. A hand cursor icon is over the 'Apply' button.

Notifications, confirmation loops.

«Apply» to save changes.

Sequential notification in the order of the users until the first one acknowledges the message. Number of loops according service profile (1,3,5).

## 4. Setup a device

### Configure a device

Choose the output you want to configure.

Activate the output to use it.

Time after the activated output will be switched off again (00:00:01 to 23:59:59 hours possible). **Must** be defined by Call-in activation.

ComatReleco IoT

Account SMS available: 141 English

Charles Mosimann charles.mosimann@comatreleco.com

Start support session

Devices > Testbox Charles > LED green

LED green

Output 1

Status ☒ Active Name LED green

Auto turn off

00:00:10 Time after which the output will be turned off automatically ☒

Events

Output on ☒ Output off ☒

Message On Message Off

SMS control

SMS control messages ☒

Output on on Output off off

Send confirmation ☐ Allow registered numbers only ☐

Phone control

Control by call-in ☒

Turn on by call-in

Notifications

Users / Machines

Message receiver (5 max.)

1. Charles Mosimann (push)

Find user / machine

Confirmation

Waiting time to confirm 5 min (1-60)

Max. number of loops 1

Close Apply

It is also possible to control the output by call-in, i.e. call the phone number of the device.

❗ As a security measure, only registered users can call.

It is possible to control the output with an SMS message.

❗ For security, the message can have a form of a password or similar, e.g. +23@LED\_ein

❗ As another security measure, you can choose that only registered users can control it.

«Apply» to save changes.

## 4. Setup a device

### Configure a device

After you finished configuring the device, go back to «Manage» on your device.

The screenshot shows the 'Manage' page for a device named 'Testbox Charles' (CMS-10R-DA). The page is divided into several sections: 'Managers' (Owner: Charles Mosimann, Installer: Charles Mosimann), 'Device' (Serial number: 1945VS000111, SMS available for this month: 10/10, Number of monthly events: 578/600, Firmware: 0.3.0), 'Connection' (Status: Connected, Mobile network: Swisscom, Phone number: +41 77 129 24 10), and 'Support' (Distributor: ComatReleco AG, E-mail: support@comatreleco.com, Phone number: +41 31 838 55 10). Below these sections are 'Edit' options (Rename, Change owner, Remove installer), 'Device time zone' (UTC time zone, UTC+01:00), and 'Events' (Startup, Connected, Shutdown, Notifications, Disconnected, Reset button, Period event count reached). A red arrow points from the 'Support' section to a zoomed-in view of the 'Support' section in the next image.

This image is a zoomed-in view of the 'Support' section from the previous screenshot. A dropdown menu is open, showing options: 'Manage your device', 'Unpair', 'Import configuration', 'Export configuration', and 'Delete'. A blue arrow points from the 'Export configuration' option to the text below.

You can export the configuration and save it, a file .json will be created.



## 4. Setup a device

### Configure a device

The screenshot shows the 'Manage' page for a device named 'Testbox Charles' (CMS-10R-DA). The page includes sections for 'Managers' (Owner: Charles Mosimann, Installer: Charles Mosimann), 'Device' (Serial number: 1945VS000111, SMS available for this month: 10/10, Number of monthly events: 578/600, Firmware: 0.3.0), 'Connection' (Status: Connected, Mobile network: Swisscom, Phone number: +41 77 129 24 10), and 'Support' (Distributor: ComatReleco AG, E-mail: support@comatreleco.com, Phone number: +41 31 838 55 10). Below these are 'Edit' options (Rename, Change owner, Remove installer), 'Device time zone' (UTC time zone: UTC+01:00), and 'Events' (Startup, Connected, Shutdown, Disconnected, Reset button, Period event count reached, Notifications). A red arrow points from the 'Support' section to the 'Import configuration' option in the next screenshot.

To configure a new device, an existing configuration file can be imported. Also from an older generation CMS-10F device.

The screenshot shows the 'Manage your device' dropdown menu with options: 'Manage your device', 'Unpair', 'Import configuration', 'Export configuration', and 'Delete'. A red arrow points from the 'Import configuration' option to the 'Upload an existing device configuration' dialog box in the next screenshot.

The screenshot shows the 'Upload an existing device configuration' dialog box. It has a text input field for 'json or .csr' and a 'Browse' button. Below the input field is an 'Apply' button and a 'Cancel' button. A red arrow points from the 'Browse' button to the file explorer in the next screenshot.


The screenshot shows a Windows file explorer window. The address bar shows '« CMS-10F - Konfigura... » CoRe'. The left pane shows the 'Organisieren' view with folders: 'User (\cosrv-file) (U:)', 'USB DISK (D:)', 'Baumann', 'CMS-10F - Konfigurationen', 'CoRe', and 'Kunden'. The right pane shows the contents of the 'CoRe' folder, which include 'CMS-10ADF', 'CMS-10CDF', and 'CMS-10F'. A red arrow points from the 'Browse' button in the previous screenshot to this file explorer.

## 4. Setup a device

### Pair a device

Devices > Sample > Manage

## Manage

 **Sample**  
CMS-10R-DA

**Managers**  
Owner: Charles Mosimann  
Installer: Charles Mosimann

**Device**  
**Pair**

**Support**  
Distributor: ComatReleco AG  
E-mail: support@comatreleco.com  
Phone number: +41 31 838 55 10

**Pair device, i.e. connect the device with the IoT Portal and overtake the configuration. Make sure that the device is powered on. Then press «Pair». With pairing the device, the service profile starts, i.e. start of invoicing.**

**Remove the cover.**

**1. Enter serial number.**

**3. Press «Pair».**

**2. Click «Pair»**

**Pairing**  
Please enter the serial number as printed on the device before pairing.

Serial number:

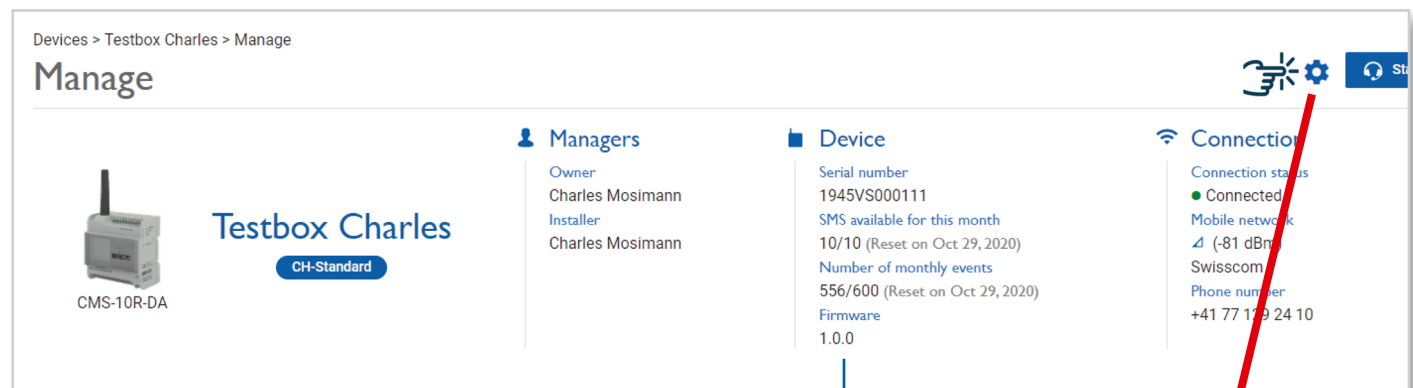
**Pair a device**  
Test Koffer CoRe I  
CMS-10R-DA

**Pair**

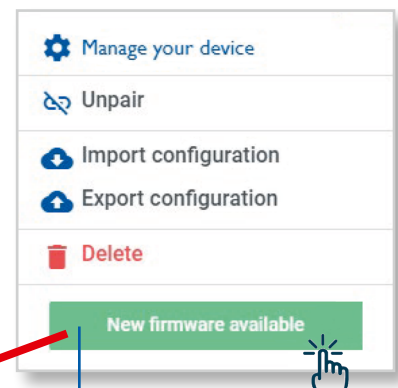
**Exit**

## 4. Setup a device

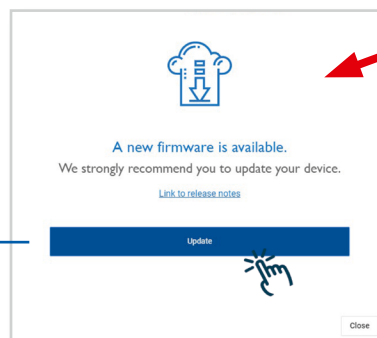
### Firmware update



ComatReleco continuously enhances the functionality of the CMS-10R system according to customer needs, wishes and other feedback. Firmware updates include new functionalities and bug fixes.



The window appears in case a new firmware is available.



The update takes about 2 minutes. During this time the device is not sending messages, etc. The device will restart after the update.

# 4. Setup a device

## Service profiles

3 different service profiles are available.

ComatReleco IoT

← Home

DEVICE

Overview

Manage

Users / Machines

INPUTS

Potentiometer

Temperature

Button

Switch

Magnet contact

Input 6

OUTPUTS

LED green

LED blue

Case light

Fan

SERVICE PROFILE

Service profile

Devices > Testbox Charles > Service profile

Service profile

← Back

	CH-Eco	CH-Standard	CH-Professional
Upgrade price	0.00CHF/month	0.00CHF/month	2.40CHF/month
Price after the 1st year of operation	2.40CHF/month	3.60CHF/month	6.00CHF/month
Available users / machines	4	10	30
Message receivers per input/output	2	5	5
Included events per month	60	600	1500
Included SMS per month	0	10	30
Owner account SMS	At cost	At cost	At cost
Number of confirmation loops	1	3	5
Call-in per month	Not available	Unlimited	Unlimited
	Select	Active	Select

Service profile change possible after 1 year

«Eco» and «Standard» are free of charge for the first year (starts when device is paired for first time).

## 4. Setup a device

### Service profiles

ComatReleco IoT ← Home Account SMS available: 0 English

Devices > Testbox Charles > Service profile

### Service profile

**Details of the current service profile**

CH-Standard

Start date: 1/29/2020  
End date: 1/28/2021

[Change service profile](#)

**Renewal of the service profile**

☐ Auto renew  
☒ Disabled

[Apply](#)

**Purchase SMS packages**

Each package contains 160 SMS and costs 20 CHF  
You can buy up to 20 Packages

Package count: 5

[100 CHF Purchase](#)

### Service profile history

Duration	Service profile name	Amount	Receipt
1/29/2020 - 1/28/2021	Service profile: CH-Standard	0.00 CHF	<a href="#">View PDF</a>

Shows current active service profile which can be changed here.

Possibility to «auto renew» after one year.

SMS packages can be bought for an account.

Overview shows the number of SMS available for the account. All devices owned by this account can use SMS ...

Account SMS available: 141 English

Search ☐ My owned devices ☐ My assigned devices ☐ My installed devices

Device model	Owner's e-mail	Status	Service profile	Expires on	SMS available for this month
CMS-10R-DA	charles.mosimann@comatreleco.com	Not paired			
CMS-10R-DA	charles.mosimann@comatreleco.com	Connected	CH-Standard	1/28/21	10 / 10

... when monthly SMS of the device have been used.

## 4. Setup a device

### Overview of your account settings

The diagram illustrates the navigation path for setting up a device through the ComatReleco IoT account settings. It consists of four screenshots connected by red arrows:

- Top Left:** A mobile app interface showing the user's profile (Charles Mosimann, charles.mosimann@comatreleco.com) and the 'Account settings' option.
- Top Right:** The 'Account settings > Password' page, showing the 'Change password' section with fields for 'Old password' and 'New password'.
- Bottom Left:** The 'Account settings > Profile' page, showing the 'Profile' section with fields for 'First Name', 'E-mail', and 'Location'.
- Bottom Right:** The 'Account settings > SMS Package' page, showing the 'SMS Package' section with options for 'Automatic renewal' and 'Purchase SMS packages'.

Red arrows indicate the navigation path: from the 'Account settings' option in the mobile app to the 'Password' page, then to the 'SMS Package' page, and finally to the 'Profile' page. A blue arrow points from the 'Automatic renewal' section of the 'SMS Package' page to the text: 'activation recommended to ensure message transmission via SMS.'

# 5. Use the device

## Device overview

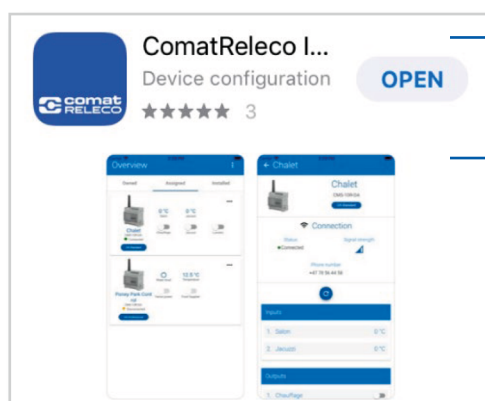
**Manager**

**Device details**

**Connectivity**

**Link to documentation and release information.**

**I/O monitoring/control**



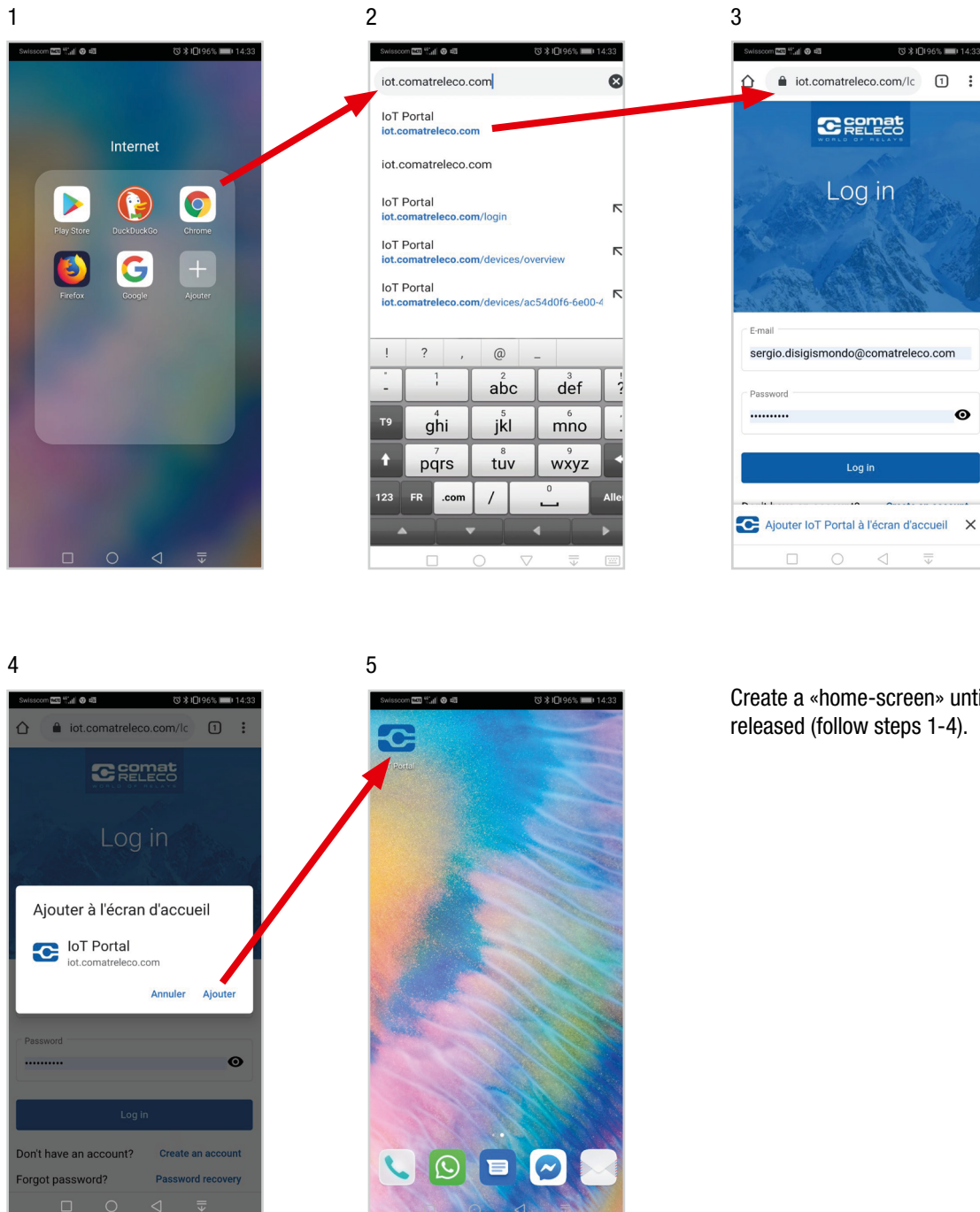
App: ComatReleco IoT Portal

App for Android phones:  
Please make sure that the app is not part of the power saving mode as this would stop indicating push notifications!

## 5. Use the device

### Create homescreen instead of using the app with Android phones

Depended on Android version and device type.



Create a «home-screen» until App is released (follow steps 1-4).



## 5. Use the device

### I/O, Status Messages/Notifications

#### Notifications

##### Users / Machines

Message receiver (5 max.)

1. Charles Mosimann (push) ✕

2. Charles Mosimann (push) ✕

Find user / machine +

##### Confirmation

☒

It is possible to add an acknowledgment loop.

Waiting time to confirm

min (1-60)

5

Define the time to acknowledge a message.

Max. number of loops

1

Number of acknowledgment loops according service profile (1,3,5).

#### Users / Machines

Message receiver (5 max.)

Find user / machine +

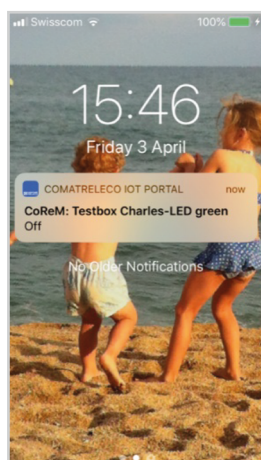
Charles Mosimann	push	SMS	e-mail
Daniel Herren	push	SMS	e-mail
Testbox Charles		SMS	

Define who will receive messages by push, SMS or e-mail. Max. Message receivers per input/output according service profile (2,5,5).

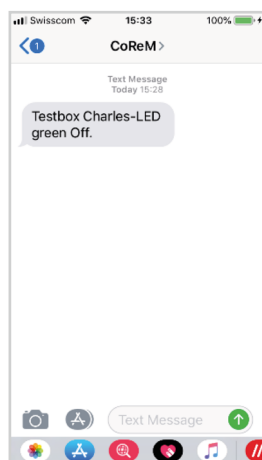


If a confirmation loop is selected, please note that a machine (or a person defined as a machine) cannot acknowledge the message. The machine only receives the notification message, without any link to confirm.

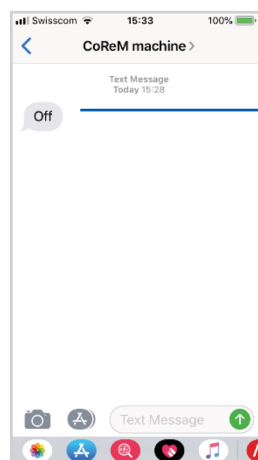
#### Push



#### SMS



#### SMS to machine



SMS to machine is sent **without header**, so it is compliant to most machines, such as Alarm servers, etc.

# 5. Use the device

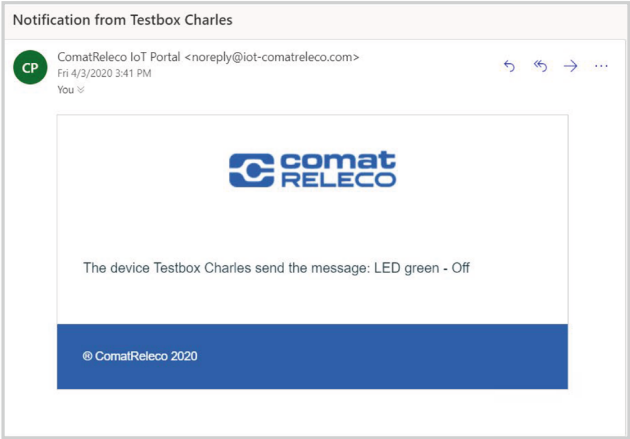


## I/O, Status Messages/Notifications

### E-mail

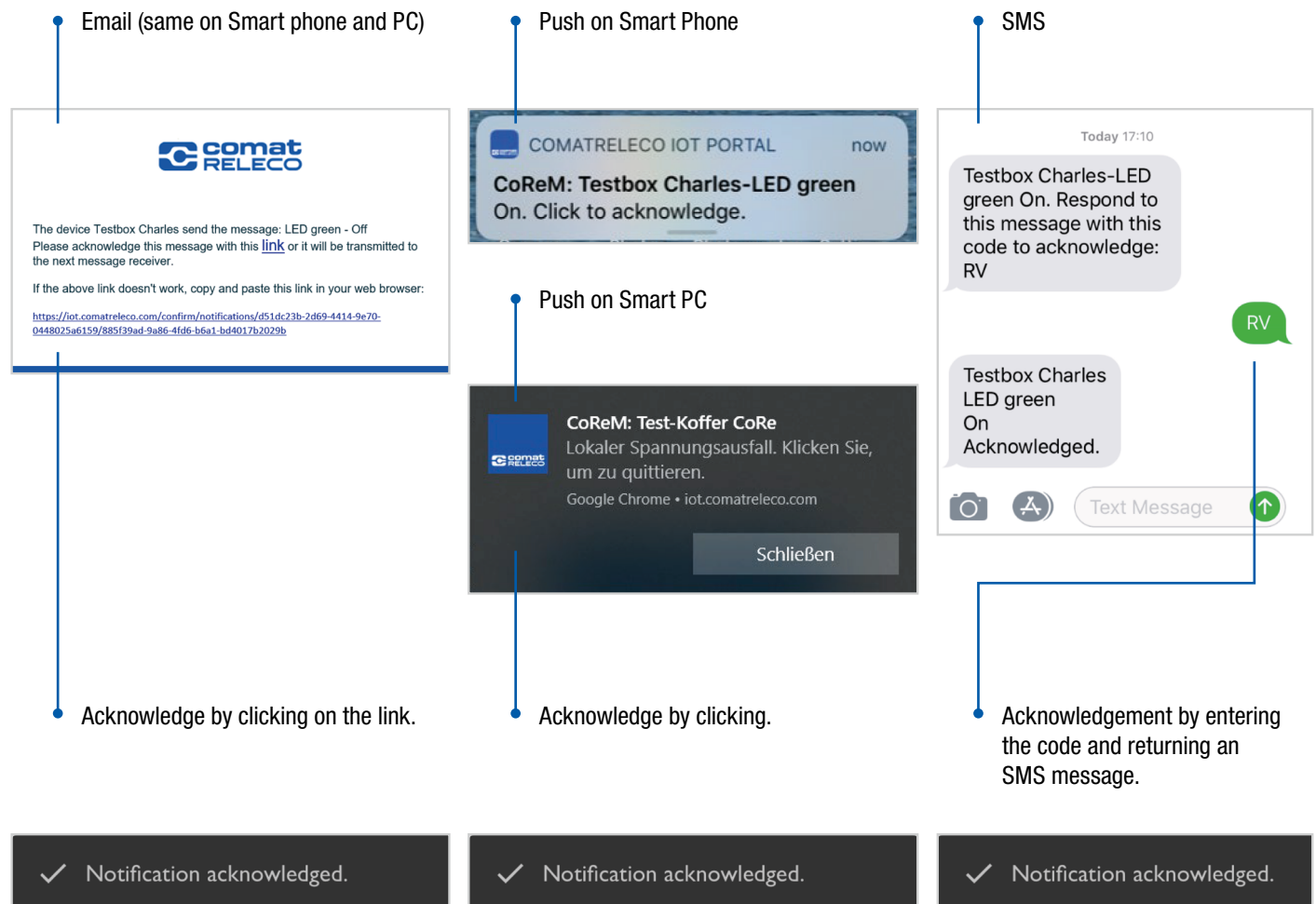


### E-mail to machine



## 5. Use the device

### Acknowledgement



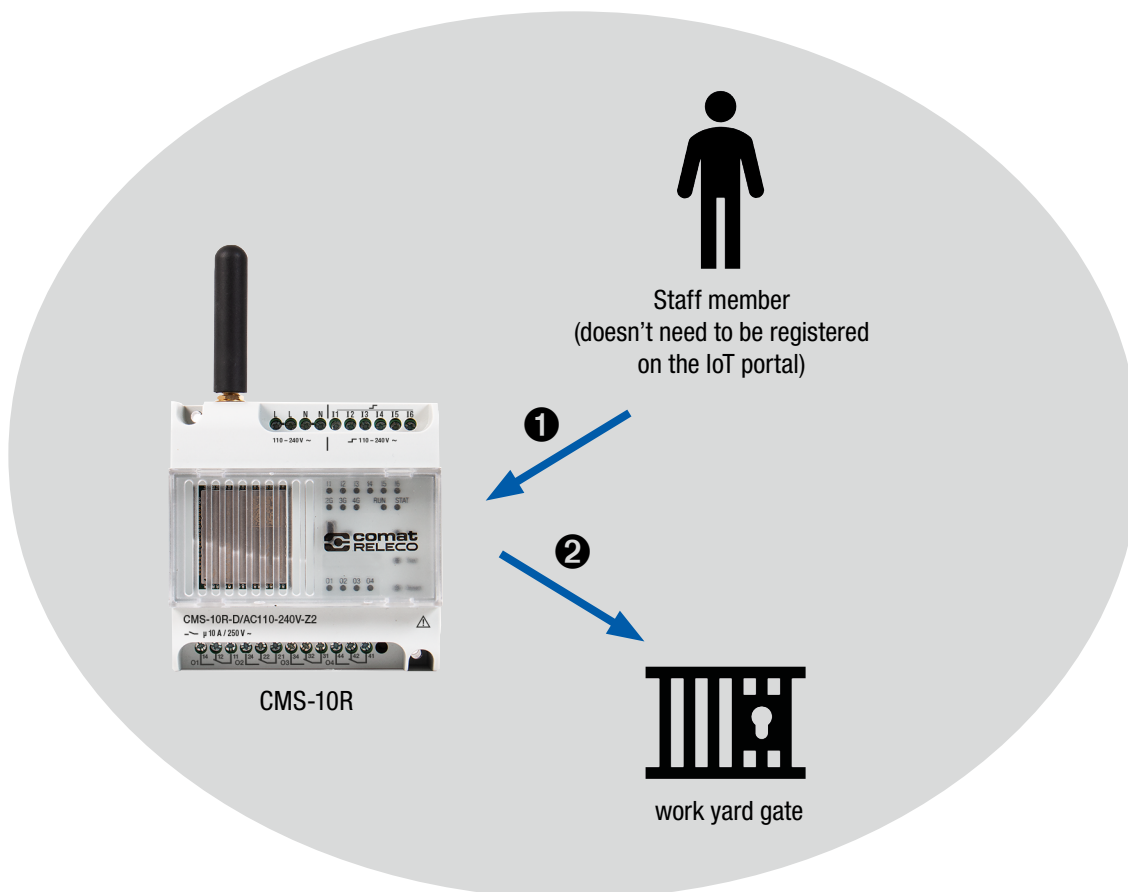
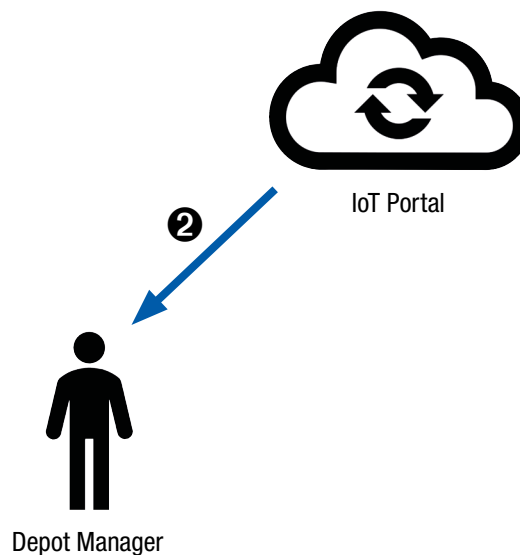
## 6. Application Example

### Access control

#### Access control of a work yard from a community with different employees.

Define an access code, i.e. SMS message, to switch an output. Distribute the access code to different people who can open the gate.

- 1 An employee sends the SMS code to CMS-10R.
- 2 CMS-10R switches the output, an e-mail is being sent to the manager that someone entered the work yard.

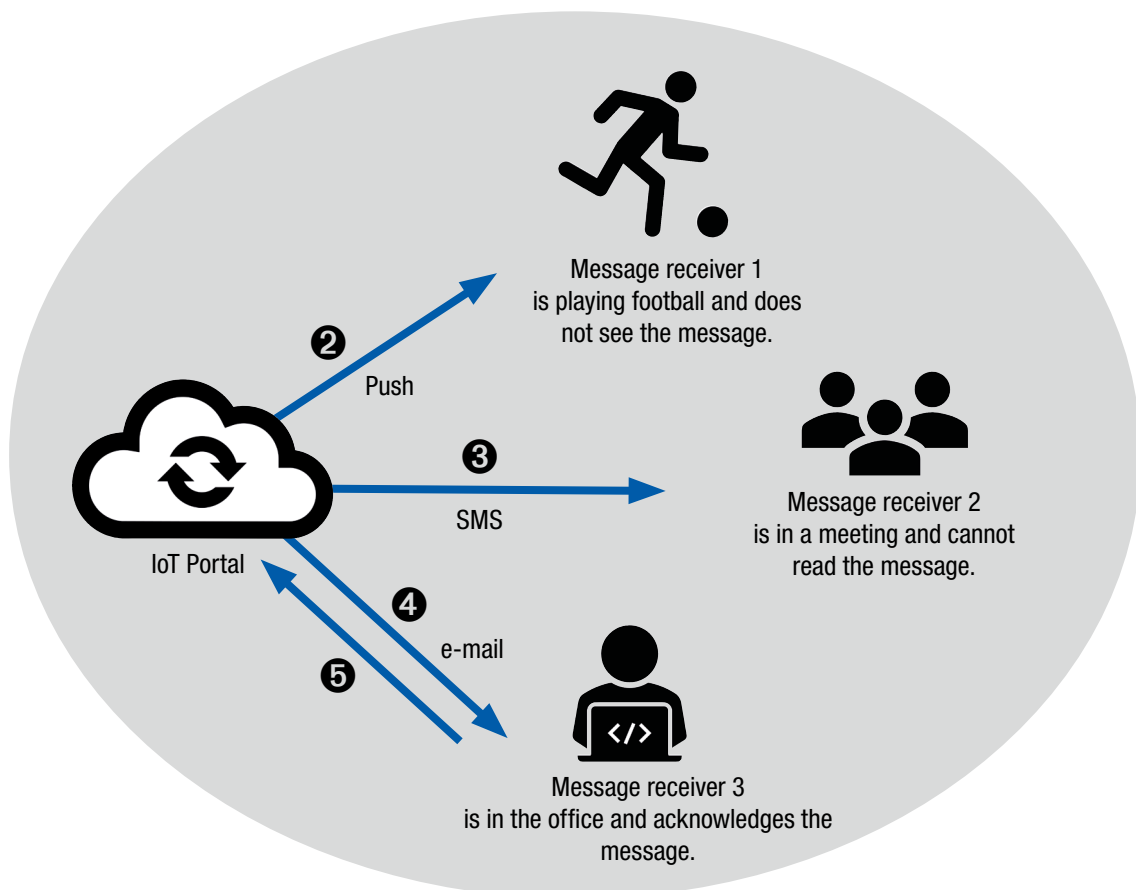
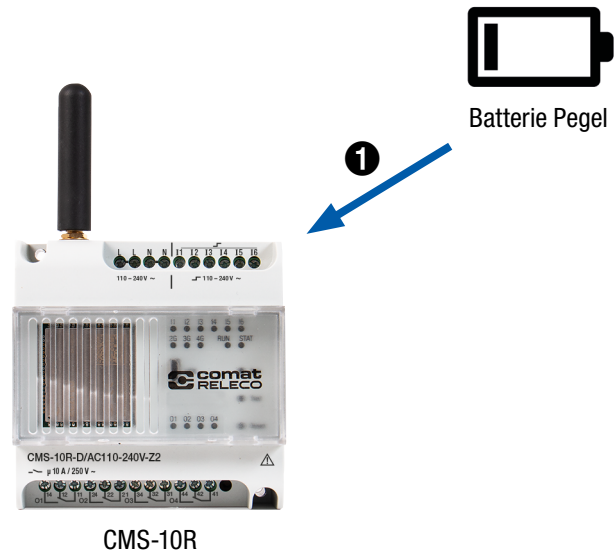


## 6. Application Example

### Acknowledgement with acknowledgement loop

#### Acknowledgement of a message from monitoring a battery charge.

- ❶ Level reaches threshold, Input 1 of CMS-10R changes.
- ❷ IoT Portal sends a Push notification with acknowledgment request to receiver 1.
- ❸ Not acknowledged within defined time. IoT Portal sends an SMS notification with acknowledgment request to receiver 2.
- ❹ Not acknowledged within defined time. IoT Portal sends an e-mail notification with acknowledgment request to receiver 3.
- ❺ Message receiver acknowledges.

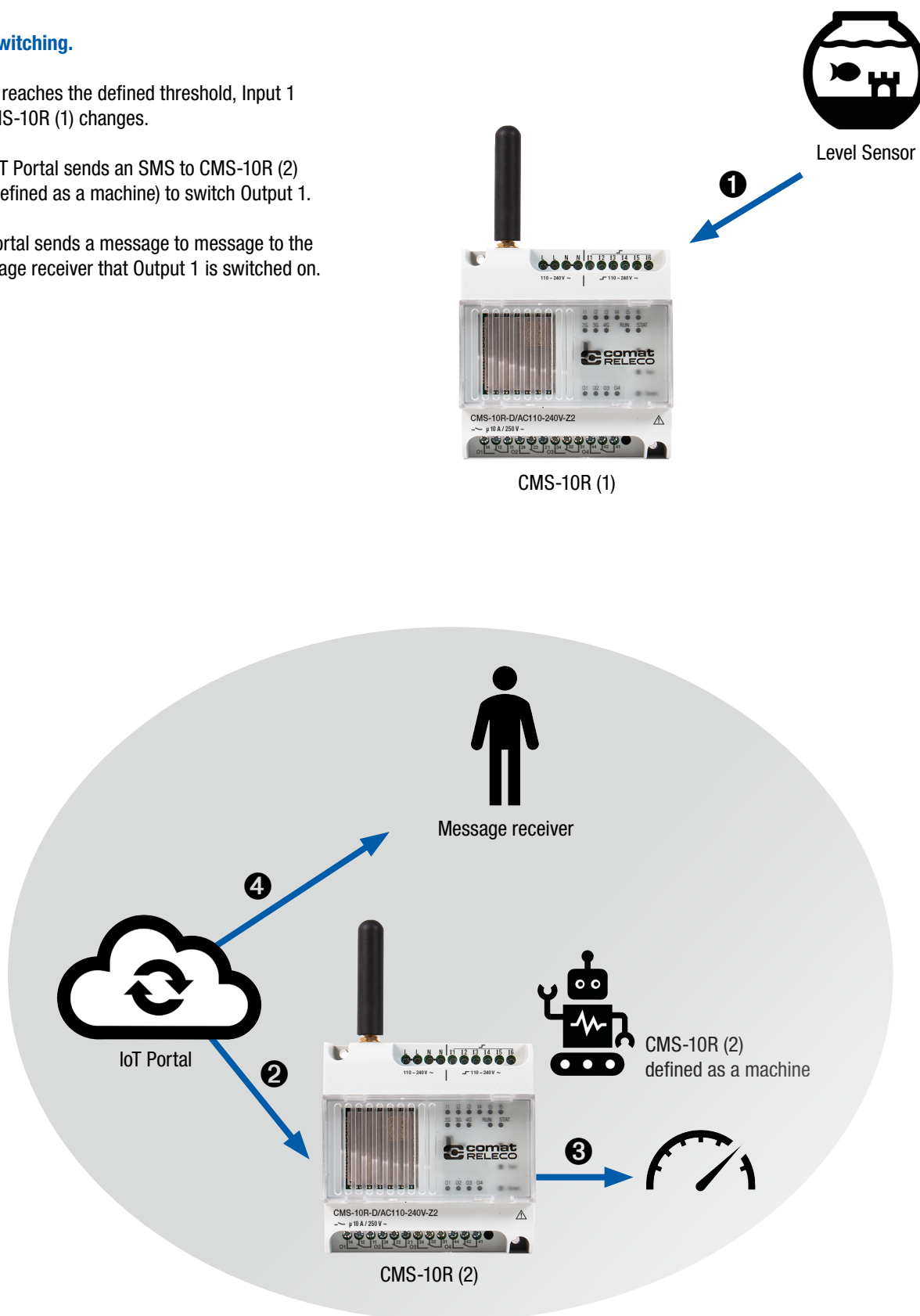


## 6. Application Example

### Remote control

#### Remote switching.

- ❶ Level reaches the defined threshold, Input 1 of CMS-10R (1) changes.
- ❷❸ IoT Portal sends an SMS to CMS-10R (2) (defined as a machine) to switch Output 1.
- ❹ IoT Portal sends a message to the message receiver that Output 1 is switched on.

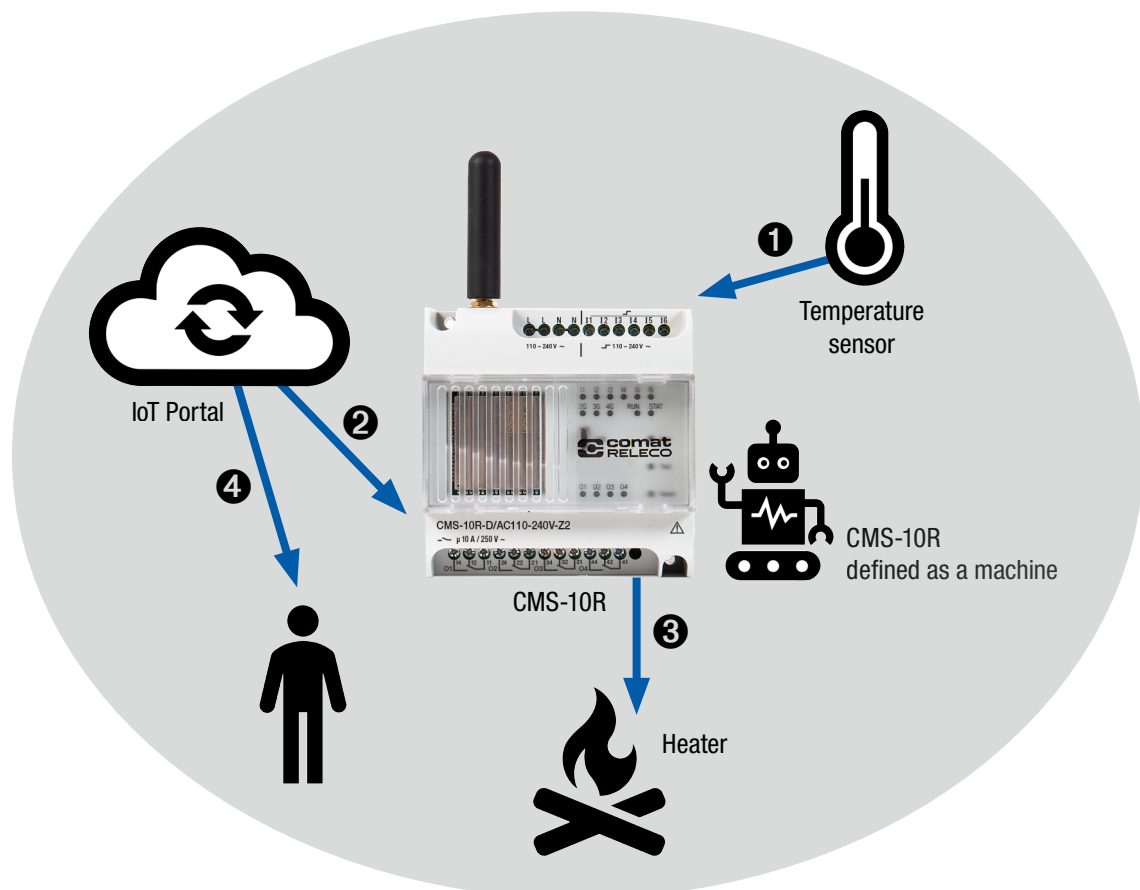


## 6. Application Example

### Very simple control system

**Measure the room temperature and switch the heater automatically on with information to the owner.**

- 1** Temperature sensor indicates a temperature that reaches the threshold as defined in the configuration.
- 2 3** IoT Portal sends an SMS to the CMS-10R (defined as machine itself) to switch Output 1.
- 4** IoT Portal sends a message to the owner that Output 1 is switched on.



## 6. Application Example

### Alarm Server

**CMS-10R sends messages from a control box to a alarm server.**

- ❶ For example, the control box lost power, indicated on input 1.
- ❷ IoT Portal sends an SMS to the Alarm Server and an e-mail to the technical manager in charge.
- ❸ The Alarm Server sends an alarm to the service engineer on duty.

