ComatReleco Messaging System

CMS-10R

‘All-in’ CMS-10R ComatReleco Messaging System

- Wireless remote monitoring and control system
- For use in 4G, 3G, 2G mobile networks
- Built-in eSIM technology for worldwide use
- No separate contract is necessary with a mobile provider
- Device communication via web browser – iot.comatreleco.com
- Push notification via Android or iOS apps, e-mail and SMS
- Configurable inputs and outputs
- Guaranteed alert in the event of blackout on site
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. The outputs are controlled 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). The CMS-10R automatically selects the network generation with the highest field strength on site.

You manage your user profile according to your needs. Several service profiles are available for the optimum use of the device. The annual licence fee - free of charge in the first year of operation - and the costs incurred for any SMS traffic are billed via the embedded invoice platform.

Wherever you are: You can switch and operate as you like. Four steps and you are there:

1. Log in to the ComatReleco IoT portal - iot.comatreleco.com
2. Select the desired hardware
3. Define who’s receiving the bill
4. Configure and connect the device

The CMS-10R is remotely configurable, reliable monitoring and control system with 4G, 3G and 2G wireless technologies. It offers:

- ‘All-in’ device with integrated eSIM, it can be used worldwide. No prepaid cards or mobile subscriptions required.
- Easy device swap: Upload the existing configuration file to the new CMS-10R.
- Plug and Play: Wireless programming via the internet with PC, smart phone or tablet.
- All in one: The CMS-10R has full out-of-the-box functionality. Mobile communication is included.
- The integrated eSIM for 4G, 3G, 2G communication does not require an additional contract with a mobile provider.
- Worldwide ‘All-in’ communication and service packages provided, ComatReleco is the single point of contact.
- The device can be configured wherever you are and does not need a cable connection.
- Several service profiles with transparent operating costs can be selected.

Firmware updates are installed via the ComatReleco IoT portal.

An unique device ID is connected with the customer project.

Data transfer between the device and the cloud is fully encrypted – high operational safety is achieved through VPN and TLS technologies.

The hardware connection is as of the previous CMS-10F product.
• Remote monitoring and control system for industrial applications and building services
• 4G, 3G and 2G communication; the CMS-10R automatically selects the network generation with the highest field strength at the site of operation
• ComatReleco ‘All-in’ IoT Messaging System with built-in eSIM
• Transparent costs through chooseable service profiles
• The device is configured via web browser in the ComatReleco IoT portal
• Every CMS-10R device is paired with the user by means of a unique serial number

• The CMS-10R device communicates via web browser, Android and iOS app, by e-mail and SMS
• The device reports any status changes to digital or analogue inputs; outputs can be activated when required
• To increase the system reliability, the CMS-10R can send SMS directly (SMS fallback), if the cloud is not available.
• Call-in or SMS can be used to activate the configured outputs in case of need
• The configuration and message texts are freely defined
• If requested by the customer, the device can be located
• The device reports power failures on site

Service profile of your choice

• There are three different service profiles to choose from: Eco, Standard and Professional
• The ‘Standard’ service profile is included in the first year of operation
• The operating year starts when the device is paired with the user account

• The service profiles include all communication charges
• The fee is billed via the ComatReleco IoT portal
• Additional SMS packages can be purchased per owner account as an option. The SMS package is available to all devices paired with the owner account
• You have full control over operating costs

<table>
<thead>
<tr>
<th></th>
<th>Eco</th>
<th>Standard</th>
<th>Professional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of events</td>
<td>60 per month</td>
<td>600 per month</td>
<td>1500 per month</td>
</tr>
<tr>
<td>Message receivers per input/output</td>
<td>2</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Number of message receivers in user list</td>
<td>4</td>
<td>10</td>
<td>30</td>
</tr>
<tr>
<td>SMS notifications</td>
<td>–</td>
<td>10 per month</td>
<td>30 per month</td>
</tr>
<tr>
<td>Number of confirmation loops</td>
<td>Max. 1×</td>
<td>Max. 3×</td>
<td>Max. 5×</td>
</tr>
<tr>
<td>Power ON / Power OFF notification</td>
<td>✓ ✓</td>
<td>✓ ✓</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Call-in per month</td>
<td>–</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Network status message</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Changes of device configuration</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td>eSIM: valid for zone 1 or 2</td>
<td>Included</td>
<td>Included</td>
<td>Included</td>
</tr>
<tr>
<td>Optional additional SMS packages</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
### Event

Any output generated by the CMR-10R device to the CoM atReleco IoT portal, according to the device configuration specified by the customer. Only one event is counted when a particular input or output has generated a message sent via one or more push notifications or emails. SMS messages are handled separately.

### Message receiver

The message receiver gets CMR-10R notifications and can be authorised to manage the configuration of the device. The message receiver is listed in the owner’s user list and is selected for specific devices.

### Owner of device

The only person or company in charge of selecting the service profile and / or SMS package for all owned devices and finalize the payment.

### Device configuration

Any change of the device setup performed through the ComatReleco IoT portal.

### Device pairing

Process to connect the device with the ComatReleco IoT portal account.

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### Glossary

- **Device pairing**: Process to connect the device with the ComatReleco IoT portal account.

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### Accessories

- **CMS-ANT-KAB/5M**: Magnetic mount antenna (5 m cable)
- **CMS-ANT-MAG2/2.5M**: Exterior antenna (2.5 m cable)

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### Technical data

#### CMS-10R

<table>
<thead>
<tr>
<th>Type</th>
<th>CMS-10R-D/AC110-240V-Z1</th>
<th>CMS-10R-D/AC110-240V-Z2</th>
<th>CMS-10R-D/AC12-48V-Z1</th>
<th>CMS-10R-D/AC12-48V-Z2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage and frequencies</td>
<td>110 – 240V AC</td>
<td>100 – 240V AC</td>
<td>12 – 48V DC</td>
<td>12 – 48V DC</td>
</tr>
<tr>
<td>Operating voltage and frequency ranges</td>
<td>85…255V AC</td>
<td>8.4…60V DC</td>
<td>8.4…60V DC</td>
<td></td>
</tr>
<tr>
<td>Maximum / typical power consumption</td>
<td>16VA / 5VA</td>
<td>13W / 5W</td>
<td>13W / 5W</td>
<td></td>
</tr>
<tr>
<td>Inputs</td>
<td>6 × digital trigger level 85 V AC</td>
<td>6 × digital trigger level 9.5 V DC</td>
<td>4 × input selectable digital or analog</td>
<td>4 × input selectable digital or analog</td>
</tr>
<tr>
<td></td>
<td>(1…4), each input selectable digital or analog</td>
<td></td>
<td>Digital trigger level 9.5 V DC</td>
<td>Digital trigger level 9.5 V DC</td>
</tr>
<tr>
<td></td>
<td>Analog 0…10 V DC</td>
<td></td>
<td>Analog 0…10 V DC</td>
<td>Analog 0…10 V DC</td>
</tr>
<tr>
<td></td>
<td>2 × current inputs (I5, I6), both only analog</td>
<td></td>
<td>2 × current inputs (I5, I6), both only analog</td>
<td>2 × current inputs (I5, I6), both only analog</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Analog 4…20 mA</td>
<td>4…/10 A 250 V, total current of all outputs 20 A</td>
</tr>
<tr>
<td>Number of switching outputs / Maximum switching capability</td>
<td>40…;…85°C ambient temperature</td>
<td>40…;…10°C operating temperature</td>
<td>0…95 % relative humidity (not condensing)</td>
<td>Protection degree: IP 20</td>
</tr>
<tr>
<td>Ambient conditions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum contact loading at the outputs</td>
<td>50 mA / 12 V</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency bands</td>
<td>E-GSM: B2, B3, B5, B8</td>
<td>E-U: B1, B2, B4, B5, B6, B8, B19</td>
<td>LTE-FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B35, B38, B39, B40, B41</td>
<td></td>
</tr>
<tr>
<td>Coverage</td>
<td>worldwide</td>
<td>worldwide</td>
<td>worldwide</td>
<td>worldwide</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### Order references

#### Zone 1

- **CMS-10R-D/AC110-240V-Z1**: With standard antenna 50 mm
- **CMS-10R-D/AC110-240V-Z2**: Without standard antenna

#### Zone 2

- **CMS-10R-D/AC110-240V-Z1**: With standard antenna 50 mm
- **CMS-10R-D/AC110-240V-Z2**: Without standard antenna

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### Zone 1 Worldwide = Zone 2

- **Argentina, Armenia, Australia, Azerbaijan, Belarus, Bolivia, Brazil**, **Cambodia, Canada, Chile, China**, **Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, France**, **Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Gibraltar, Greece, Guernsey, Hungary, Iceland, Ireland, Islet of Man, Jersey, Kosovo, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Montenegro, Netherlands, North Macedonia, Norway, Poland, Portugal, Romania, Serbia, Spain, Sweden, Switzerland, Ukraine**, **United Kingdom, United Arab Emirates**, **Africa**, **Azerbaijan, Congo, Egypt, Gabon, Ghana, Ivory Coast, Kenya, Morocco, Nigeria, Senegal, South Africa**, **Thailand**, **South Korea**

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*on request*