



Application Report

Monitoring, alarm, remote control

Area Building technology

Building Technology

Monitoring

Alarm

Remote control

The majority of private properties do not have a comprehensive building automation system, but rather various self-contained systems. These function independently of each other without communicating with each other. These include the control of heating, hot water production, lighting and ultimately also the energy supply of the property.

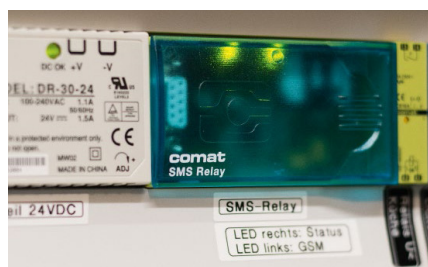
ComatReleco products in operation

- CMS-10R - Messaging system

The mobile world and social media have been showing us the way for some years now: No matter where we are, we are informed «in real time» about events and changes and can react within seconds. If we map this fact from the social environment to our own home, we realise that we do not even know at this point in time what operating state the technical facilities at home are in. In order to clarify this, we first have to be on site. But we also have to have certain knowledge in order to understand the technology behind it. If a part of the system is not working, we only notice the consequences a few hours after the failure: We are standing under the shower and no more hot water is flowing, or suddenly it is strangely cold in the otherwise warm room. Only when we enter the boiler room do we notice the red lamp that wants to indicate a technical malfunction.

Informed at all times

The CMS-10R is a compact monitoring system to which the fault messages of various devices, regardless of manufacturer, can be connected. It can also detect temperatures and monitors the building's power supply. If one of the parameters changes, this is immediately reported via SMS. In this way, you are informed about the failure of the heating system before you notice the temperature loss yourself. The CMS-10R can also be used to switch various systems remotely: For example, the garage door can be opened by a phone call or the outdoor lighting can be switched on for a certain period of time.



Safety thanks to monitoring

A farmhouse in ArniBE that was converted into a detached house in the 1990s was equipped with an CMS-10R. This example shows in an impressive way how easy it is to network the existing technology via the CMS-10R and what advantages this monitoring system offers the homeowner.



The building has oil heating, its own spring with water intake and a swimming pool. Parts of the technical equipment were adapted or partially renewed independently of each other - a starting situation that can be found in countless properties. The CMS-10R monitors the heating control and sends an SMS in the event of a malfunction. With a simple command via SMS, the heating can also be lowered to a lower temperature mode («holiday home mode»). This means that notice-

ably less energy is used during absence. A temperature sensor records the temperature of the boiler. As soon as it falls below 40°C, a message is sent. A simple call to the CMS-10R activates the boiler charge at any time, ensuring a warm shower after a cold day at work. Another temperature sensor monitors the inside temperature of the house on the north side. A message is sent if the temperature falls below 10°C. This prevents any possible freezing. This prevents the water pipes from freezing. The control of the water supply and the control of the swimming pool are also monitored. If the high-pressure pump of the water supply fails or the content of the water storage tank falls below a certain level, a message is sent. A defective seal of the high-pressure pump was only noticed in time last summer thanks to the CMS-10R: the owner was informed of the malfunction by SMS and was able to

act before the entire ground floor was under water. In this way, consequential damage was avoided and there was no shock when entering the house. No expensive automation solution is necessary to keep track of the technical equipment of the home. As our example shows, the CMS-10R can be retrofitted in any building and protects against unpleasant surprises and high consequential costs due to claims.