



comat **RELECO**

Application Report

Heat - wherever it is needed

Partner Groupe E Entretec SA

Area Central monitoring of mobile heating systems

Building Technology

Temperature

Fill levels

Alarm

Partner

Groupe E Entretec is a trusted partner for all technical maintenance services related to buildings, HVAC and water treatment as well as mobile heating. The company operates in Western Switzerland, where it provides innovative energy and environmental efficiency solutions for institutional, industrial and residential clients.



ComatReleco products in operation

- CMS-10R Messaging System

Cosy temperatures in wintertime are taken for granted in this country. It is simply inconceivable that employees in administrative buildings sit in front of screens in their coats or that warmer blankets are distributed in hospitals because the heating is not working.

And yet there are various situations in which the permanently installed heating is not available. Be it because the heating has broken down, has reached the end of its service life and needs to be replaced, or because it has been destroyed by events such as flooding or fire. In these cases, the time without one's own heating device can be bridged with a mobile heating station.

Mobile heat production

The tank for the fuel and the burner of mobile heating stations are housed in a trailer that can be moved to the vicinity of the place of use without much effort. Specialised experts connect the mobile heating station to the existing building installation and the heating is ready for use for the desired period of time.

Plug and Play

The mobile heating centre corresponds to a plug and play solution. Two self-contained systems – the building installations and the heating centre installations – are connected and can be put into operation at the push of a button.

Operational safety

To ensure that mobile central heating units operate without malfunctions, they are monitored electronically. Either digital or conventional analogue sensors can be used to check the level in the heating medium tanks, which send a message to the CMS-10R transmitter if the fuel level falls below a defined level. Another sensor monitors the function of the burner. If a malfunction is detected, this triggers an error message to the CMS-10R. The same happens if a temperature sensor registers deviations from the set temperature.

Fault management

The transmitter reports status changes via the mobile network as a push message to the ComatReleco IoT Cloud. The cloud functions like a distribution centre and forwards the message via email or SMS to previously defined recipients. In the specific case of the mobile heating system, the notification is sent to the responsi-



Central monitoring and steering of several decentralised deployment points

ble service technician. To get an initial overview, the technician can log into the cloud, select the relevant devices there and determine whether the fault can be remedied online. For example, he can change the room temperature in the heated buildings directly via the portal if there is a deviation message from a temperature sensor. If the error cannot be rectified with the help of the electronic tools, he must rectify the fault on site, which he can do with manageable effort because he already knows where to look for the error.

Thanks to the ComatReleco messaging system, resources can be used efficiently and numerous locations can be managed centrally.

