

WORLD OF RELAYS

CMS-10R MESSAGING SYSTEM | RMC INDUSTRIAL CONTACTORS | PLC & HMI

EDITORIAL

Dear Reader,
since the first confirmed case of Covid in Switzerland on 24 February 2020, having professional, functioning supply chains has gained in importance and was rapidly promoted to being critical to success. We are proud of our "World of Relays" slogan, and do our utmost to offer our customers a wide-ranging, specialised product portfolio of over 5,000 active sales products.

The shortage of semiconductors we keep hearing about in the press has represented a challenge for many companies right across the spectrum. Our products come from several semi-finished products which in turn are made up of a number of different individual components. Just one missing component can result in bottlenecks manufacturing different products for sale. I'd like to mention first of all that we weren't spared the bad tidings or shortages in materials, however, it was our ability to adapt to the ever-changing circumstances that was decisive in our success. The impressive innovative capacity and agility of the SMEs located in Worb contributed to what would ultimately become a profitable situation. The workforce at ComatReleco AG really pulled together to find common solutions, including numerous redesigns being implemented in record time, procurement parameters being adjusted, new purchasing tools being rolled out to ensure improved oversight, systematic supervisory controls being set up and exchange with all the production facilities being stepped up. As a preventative measure, safety stocks of critical components and parts were

increased to ensure continued production. External transport logistics also affected our supply chain: Sticking to customer delivery schedules was prioritised from the very beginning, which meant that a number of stock transfers were carried out by air rather than by sea. Maintaining profitability played, naturally, a central role to guarantee high service levels long-term.

We now look forward to the future with optimism, and look forward to using what we've learnt over the last couple of years to provide an even better experience for our customers.

I hope you enjoy reading this edition!

A handwritten signature in blue ink, appearing to read 'Meier'.

Silvan Benedikt Meier, COO



RMC INDUSTRIAL CONTACTORS – SMALL BUT POWERFUL

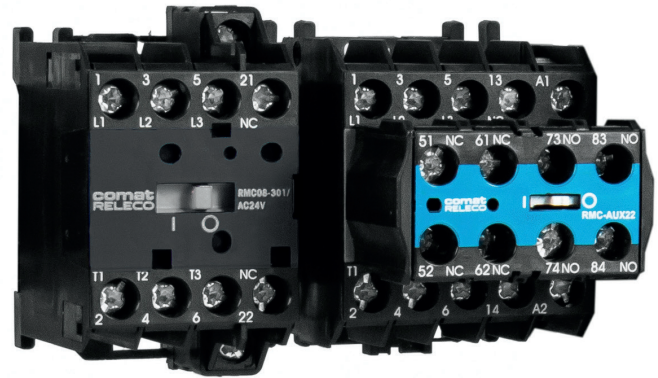
RMC miniature industrial contactors are reliable switching components for increased loads in industrial settings. Thanks to a wide range of accessories such as auxiliary modules, mechanical locks and suppressors, they are ideal for all kinds of different applications.

RMC miniature industrial contactors offer a combination of excellent performance and compact design. The switching capacity is an impressive 8.5 A / 4 kW (AC-3) at an installation width of just 35 mm. The contactors can be mounted both horizontally and vertically on DIN rails.

At just 35 mm, the RMC08 is the SMALLEST 4 kW contactor on the market.

Any switching you require

- Operating current 8.5 - 11.3 A (AC-3)
- Coil voltages 24 V DC / 24 V AC, 230 V
- 3 primary contacts and NC or NO auxiliary contact
- Expandable with auxiliary contact block
- Any mounting position



Applications

Switching motors, pumps, etc. in industrial settings and lighting, heating, etc. in buildings.

APPNOTE – TREATING WATER WITH M91 AND V430 CONTROLLERS

Increasing contamination of thus-far clean drinking water supplies have made water treatment processes a necessity in order to guarantee high water quality and compliance with quality standards such as the drinking water ordinance.

Monitoring water treatment is a complex process and needs to take into account both the source of the water and what its ultimate purpose will be. The requirements for drinking water are much stricter than those for process water, and sea water requires a totally different treatment than water coming from a spring. The company Aqua Innovation GmbH from Zug develops, manages and installs water purification plants for different applications. Filters, ion exchangers and specific chemicals as well as disinfection using UVC light are installed in the plants to achieve the required levels of treatment.

It would be impossible to achieve the target values without constant monitoring and automated correction of the measures implemented.

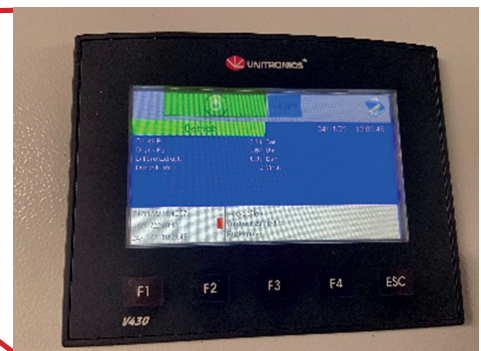
To control and coordinate the different stages of cleaning and disinfection, Aqua Innovation GmbH relies on the compact SPS M91 and V430 manufactured by Unitronics.

For both control devices, the software programming is simple, intuitive and easy-to-learn in a short time. Trained company staff are able to program, maintain and expand the software themselves.

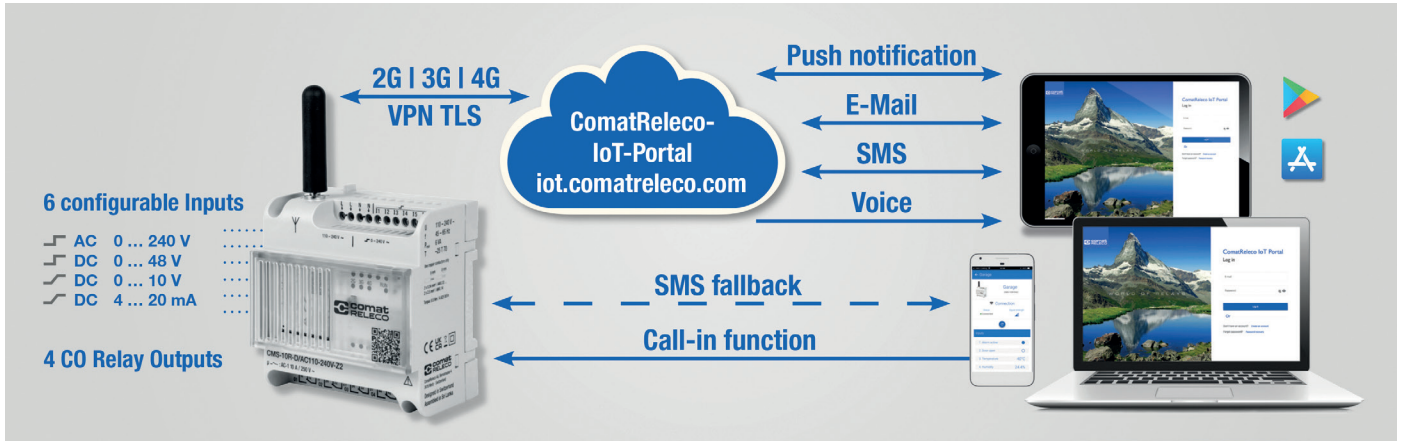
In one recent project for Aqua Innovation GmbH, a V430 PLC was installed on the Stadt Rapperswil paddle steamer for the Lake Zürich Navigation Company ZSG to treat the water on the boat.



V430 PLC for controlling the reverse osmosis plant for the water production of the «City of Rapperswil» of the ZSG.



CMS-10R – MESSAGING SYSTEM FOR EVERYONE



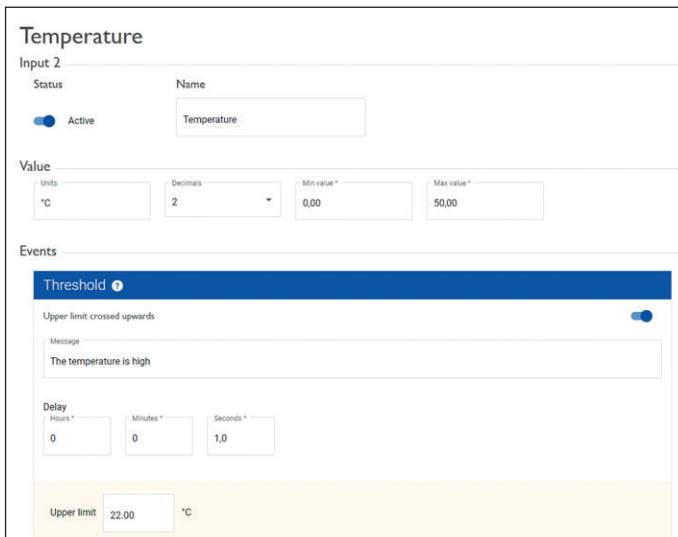
Summary of the technical characteristics and alert handling for the CMS-10R.

It is almost impossible to make significant energy savings without some kind of automation – the CMS-10R messaging system from ComatReleco is ideal for a whole range of automated tasks ranging from measuring the charge status of a battery to the switching on and off of users, and all without the need for programming knowledge.

Any user is able to configure the sensors and adjust the parameters without needing to call on a specialist and any digital or analogue industry-standard sensor (0 to 10 [V] / 4 to 20 [mA]) at all can be connected to the device.

Automatic comfort

One leading area of use of the CMS-10R is to manage heating systems, maintaining room temperature within set boundaries by switching the heating on and off as required. The system can be operated remotely in such a way as to ensure that energy savings are maximised while still ensuring the homeowner comes home to a comfortable temperature.

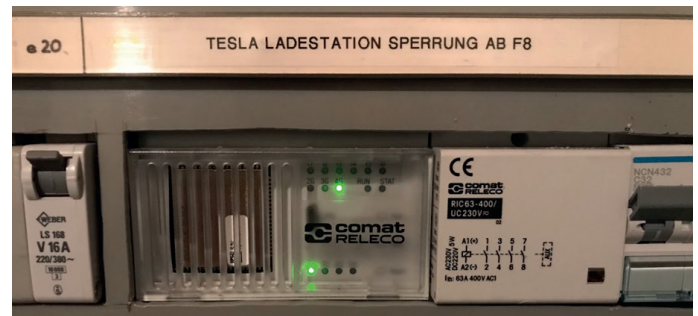


Thanks to the intuitive menus, setting the right temperature is child's play.

Automatic mobility

The useful life of rechargeable batteries depends a lot on how they are charged – 'extreme' battery charges such as fully charged (100%) or completely discharged (deep discharge, 0%) have a negative effect on the lifetime of batteries in electric vehicles. The CMS-10R can monitor the current status of the battery and send out a warning if pre-defined levels are exceeded. This function is even available at public charging stations, as only registered users of the CMS-10R can configure the device to charge their vehicles using text message or a mobile

application. New users are redirected to a website where they can register and enjoy the full functionality of the charging station without any delay.



A CMS-10R in use on a public electric vehicle charging station.

Automatic networking

The CMS-10R Messaging System also has a cloud solution: the ComatReleco IoT Portal. All events are logged and saved automatically in the cloud for further processing. Registering on the portal is open to everyone, and the platform itself is simple to operate, making it the ideal tool for cooperation between a number of individuals. Each and every CMS-10R device (including those already in use) benefit from regular updates which keep them constantly up-to-date.

Configuration for everyone

The analogue inputs can be configured without any prior programming knowledge – any user is able to configure the sensors and adjust the parameters without needing to call on a specialist to help. The CMS-10R is a remote control and alarm system that truly is for everyone.

For more information on the CMS-10R devices, the IoT portal, and the rest of our product line, please visit www.comatreleco.com



PROGRAMMABLE LOGIC CONTROLLERS AND DISPLAYS – OVERVIEW

Together with Unitronics, ComatReleco has developed an integrated solution for controllers and automation – the wide range of PLC & HMI covers absolutely everything from simple to complex logic controls with integrated or virtual displays. With our high-performance all-in-one programming software (at absolutely no additional cost) you can shorten your development timeframes by up to 50%.

In addition to these products, depending on the technical specifications we can also provide customised solutions and tailor-made services such as consultancy, planning, project planning, programming, testing, training, webinars, instructions, support and repairs.



Jazz® series	UniStream® PLC
<p>All-in-one solution for simple PLC with text-only display and keypad.</p>	<p>For complex, multi-functional and rugged applications. The UniStream comes in both modular and built-in versions with a high-resolution colour touchscreen (5", 7", 10.4" and 15.6").</p>
Samba™ series	Remote I/Os
<p>For smaller devices with graphic display. The Samba is a fully-functional PLS with integrated high-res full-colour touchscreen (3.5", 4.3" and 7") and integrated I/Os.</p>	<p>Can be expanded decentrally by up to 63 I/O modules per adapter over Ethernet. Space-saving design at a width of just 12 mm.</p>
Vision™ series	Virtual display
<p>For advanced machine control and automation projects. The Vision comes as a compact PLC with high-res colour touchscreen (2.4", 3.5" and 4.3") and integrated I/Os or as a modular PLC with high-res colour touchscreen (5.7", 7", 10.4" and 12.1") and can be individually expanded with snap-in I/O modules.</p>	<p>UniCloud is a comprehensive, integrated, no-code IoT cloud platform for plant installers and owners. Test the cloud free-of-charge for 3 months and try out the free app solution for Android and iOS.</p>

UPCOMING TRADE FAIRS – MEET COMATRELECO



8 – 10 March 2023 | Istanbul



24 – 25 May 2023 | Berne



31.05. – 01.06. 2023 | Bangkok



5 – 7 September 2023 | Berne