



Benefits

- Securely communicate with IT systems & remote equipment
- Perform functional checks & remote maintenance
- Reduce customers' costs as fewer staff needed to be on-site
- Real time equipment status updates

Solution:

Remote Data

Products:

eWON Flexy

Customer: MICAFLUID AG

Distributor: Bachofen

Country: Switzerland

Getting clean with insulating oils

MICAFLUID AG creates added-value with remote solutions

Highly refined mineral oils and low-viscosity silicone oils provide insulation in transformers and capacitors and protect them from overheating. But only if the oil is in pure condition. That's the job of MICAFLUID AG's plants.

Only a few global players offer treatment plants for insulating oils. Many providers operate at the local level. Although the Swiss company MICAFLUID is not one of the largest, they are a technology leader and have an outstanding reputation with power plant operators around the world.

100 years of experience in oil treatment

MICAFLUID's activities are based on Micafil technology, which has a global presence and has set standards for oil treatment plants for nearly 100 years. This gives the company an enormous wealth of experience and comprehensive process expertise in oil treatment and regeneration technologies.

Plant concepts oriented to customer specifications

Tailored solutions from MICAFLUID make a significant contribution to maintaining the worth and boosting the capability of transformers. The plants are engineered in close cooperation with customers and with the aid of advanced CAD, computation and software tools. Engineering Manager, Oliver Kraeuchi mentioned: "We create added value for our customers by making our plants smarter and more autonomous." The keyword is automation. Industry 4.0 is nothing new at MICAFLUID. "In the early years," says Oliver Kraeuchi, "we equipped our plants with three sensors. But now 14 sensors keep an eye on the plant and acquire data for temperature, pressure, humidity, flow, operating hours, system outages, and other parameters."



“ The eWON Flexy routers and the secure web-based networking enable our customers to communicate with their plants 24/7, regardless of their location. ”

Oliver Kraeuchi, Engineering Manager, MICAFLUID AG



More and more MICAFLUID machines are equipped with eWON Flexy routers, enabling them to communicate with IT systems and mobile devices over secure virtual private networks anywhere and anytime.



The VOP oil treatment plant, which can be remotely controlled and maintained via eWON Flexy.

Remote interaction with the plant

More and more MICAFLUID machines are connected to the Internet. They are equipped with eWON Flexy routers, enabling them to communicate with IT systems and mobile devices over secure virtual private networks anywhere and anytime. The plants independently transmit status messages, fault messages and reports.

In the other direction, the plant operator can perform functional checks and remote maintenance at any time and from any desired location. The self-diagnosis and capabilities of the plants have direct cost benefits for customers: they need fewer staff on site, they have their power plants (often located in remote areas) under control, and they can troubleshoot issues directly online without lost time.

MICAFLUID trains the responsible technicians to give them the necessary expertise. If that is not enough, a technician from Schlieren can be available quickly for maintenance support via remote access.

Dynamic partnership with Bachofen

MICAFLUID buys the eWON routers from Bachofen, an exclusive distributor of eWON products in Switzerland. As a customer, they expect their supplier to provide not only expert advice and support, but also assistance in the integration of software components.

Proactive provision of information about new products, product lifetimes, and technology trends is equally important. In the MICAFLUID reception area there is a poster from 1992 with the slogan "Micafil Service – We never forget you." This principle of customer proximity is more important than ever now. It ensures the continued development of the company, even under challenging conditions.