



Application report

# **Industrial electronics in a harsh environment**

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**Partner** Kieswerk Daepf AG  
**Area** Industrial and process technology

# Industrial and process technology

Visualization

Automate

Profit

## Partner

Kieswerk Daupp AG was founded in March 1927 by the brothers Fritz and Hans Daupp at the present-day location in Oppligen. Today the company has 60 employees and belongs 100% to the Lädach family. The 60 employees work either at the main site in Oppligen or at one of the three subsidiaries. These are HU. Liechti AG in Schüpbach, Emme Kies & Beton AG in Grünenmatt and Aare-Kies AG in Kirchdorf.

## ComatReleco Products in use

- Unitronics V570, Unistream – Memory Programmable controllers
- C5, C7 - Industrial relays



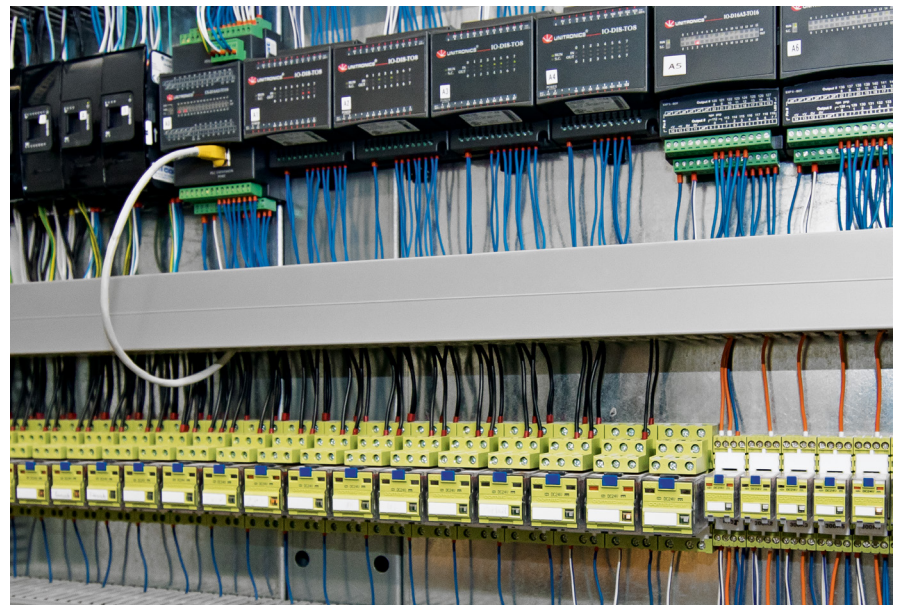
Sometimes it's the simple steps that have a great effect. This is particularly evident at the concrete plant HU. Liechti AG in Schüpbach, a subsidiary of Kieswerk Daupp AG. Kieswerk Daupp AG has been using products from Comat successfully for many years. Numerous conversions and expansions mean that these products are now at the centre of the action everyday at the plant in Schüpbach.

### Cooperation from project planning to realisation

In 2013 the old concrete mixing plant was replaced by a new construction at the same site. Walter Pfäffli, chief technician at Kieswerk Daupp AG, relies on proven technology for the building controller: a Unitronics V570 takes care of all control tasks, from the lighting to the concrete agitator. The high modularity and flexibility of the controller allowed it to be adapt-



ed ideally to the requirements in cooperation with Comat AG. Walter Pfäffli took care of the programming himself. All the outputs of the PLC (transistors) are provided with coupler relays of the types Comat C5, C7 and CINT. This has massively increased the availability of the system. In the event of damage, only the relay is replaced – a task that requires no specific skills.



### Informed at all times

The raw material silos of the concrete mixing plant are fed by wheel loaders via an elevator. The wheel loader driver's tasks include the complete management and the supply with raw material. Maintaining an overview at times of high stress and correctly estimating the fill level of the silos wasn't easy before the conversion. The indicator lamps of the elevator only indicated when a silo contained too little raw material. The driver had to leave the vehicle in order to operate the controller, which proved to be completely inefficient. In the search for improvement suggestions, Walter Pfäffli came into contact with Comat once again. Together, various approaches to a solution were elaborated and one variant proved to be ideal. Using ultrasonic sensors, the fill levels in the silos are read into the concrete controller from Ammann. The same signals are picked up and transmitted to a Unitronic Unistream, which has replaced the

old elevator controller since then. The controllers from the Unistream series offer the option of expanding operation to smartphones and tablet PCs by means of a VNC app. The WiFi coverage was extended to the entire plant area and a tablet PC was mounted in the driver's cab of the wheel loader. The driver is thus informed at all times of the fill levels in the silos and he can operate the controller directly from the driver's cab. Idling times can be used optimally for feeding so that the system is prepared for peak times. The vehicle no longer has to be left to do this.