

VMT9000 series in operation at Papier- u. Kartonfabrik Varel in Lower Saxony



Industrial IT

About Papier- u. Kartonfabrik Varel

The traditional family business PKV (Papier- und Kartonfabrik Varel GmbH & Co. KG) is part of the HZI Group and produces new paper and cardboard for packaging from recycled wastepaper. Every year, up to 925.000 tonnes of environmentally friendly products are produced - making PKV one of the largest German companies in its sector. Consistent sustainability and constant striving for innovation have always been values that PKV lives by every day.

Problem definition

The customer's warehouse had previously been using narrow-band devices. However, these no longer met current standards and could only process a limited amount of data. This prompted PKV to start looking for a new forklift terminal in summer 2020 to bring its forklift fleet up to date.

Requirements and implementation

For the new forklift terminals, data transmission to the terminal was particularly important and at the same time a challenge: in the interior of the warehouse amidst the densely packed masses of paper, it is almost impossible to realise a trouble-free operation of a WLAN connection. Furthermore, PKV has a large open-air storage area. Equipping the outdoor warehouse with WLAN access points would have meant high investment costs. All in all, data transmission via WLAN was therefore not feasible. The VMT9000 series has the great advantage that an LTE module can be integrated to reliably cover the entire outdoor area. Thanks to their extreme robustness and durability, even very harsh outdoor conditions are no problem for the forklift terminals in the VMT9000 series.



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However, reliable data transmission was not the only thing that was important to the customer. As the forklift drivers also work in strong sunlight, the brilliant display with sunlight-readable equipment offers enormous added value.

Furthermore, due to a mixed fleet of forklift trucks, there was a requirement for a wide input voltage range for the terminal in order to cover all common vehicle electrical system voltages between 12 and 48 volts. An additional problem with some forklift trucks was that the power supply for operating devices was always interrupted when the vehicles were switched off and restarted. Thanks to the integrated UPS module, the VMT9000 series fulfils the requirements for the mains voltage range and the interruptions in the power circuit can be bridged without any problems. Operation for up to one hour from the battery is therefore possible.

Conclusion

At PKV, the VMT9000 series has once again shown that all problems can be solved with just one device.

“We are happy to have found a competent partner in ADS-TEC to be able to map our processes reliably and cost-effectively with state-of-the-art hardware,” summarises William Sennecke, System Administrator IT Infrastructure at PKV.

It is precisely because of their multifunctionality and the ADS-TEC overall concept that the devices are so popular in many sectors. They can be configured according to the respective requirements to create the most efficient solution possible. This always results in a good price-performance-ratio.

With PKV, ADS-TEC Industrial IT has gained another valuable customer that is an excellent fit for the ADS-TEC Group, because of its values and sustainability concepts.

