



Member of GHM GROUP

Flexibility and safety – tailored data management



HD35EDLW

HD35 for integrated cold storage monitoring

The requirements imposed on us

A continuously measuring data logger system is required as a replacement for the existing spot measurements after expansion of the cold storage capacities. In addition to the main measured variable, temperature, the cold storage doors should also be monitored and an alarm signal (optical and acoustic) should be triggered in select locations within the facility when the doors are left open too long. The system must be expandable for additional measured variables, and the incorporation and recording of consumption values is already planned. A wireless solution is preferred, because the measurement data of the twelve cold storage rooms and a laboratory distributed throughout the facility should accumulate collectively in a central data base on site and must be accessible to and viewable from multiple work stations.

Our solution

After inspection of the facility and a very positive test of the wireless performance of the Delta OHM HD35 system, the following system solution was proposed and implemented: The overall operation was categorized into nine zones based on the wireless data logger system. Each zone has a dedicated HD35APW access point, which



BENEFITS.

- tailored data management
- low installation costs
- data security with triple storage
- almost unlimited expandability

receives the data of the data logger (type HD35EDLW N TV 61 temperature, HD35EDLWH universal input / door contact) in this zone wirelessly. The access point delivers the measurement data to an internal FTP server via the company's internal LAN network. The HD35APS loads the data from the FTP server to a MySQL database automatically and enables visualisation of all recorded measurements. With the software's multi-user function, it is possible to access the database and/or visualise measurements from different PCs. The optical and acoustic alarm signalling on site is realized with the HD35ED ALM alarm module. Individually assigned alarm conditions (e.g. / cold storage room no. 3) are provided to the respective alarm module via relay contact (for activation of the optical and acoustic alarm signalling).

The HD35EDLWH universal input data logger will be expandable for future integration of consumption values via 0 .. 10 V or 4 .. 20 mA. The various zones or the overall system can be supplemented arbitrarily with additional data loggers. In addition to the aforementioned measurements, data loggers are available for a wide variety of parameters (lighting, UVA/ ..B/ ..C, CO₂, CO, relative humidity, meteorological variables, etc.).

Benefits

- HD35 system fulfils all customer requirements and the customer has all the data at their disposal
- minimal installation costs for the wireless data logger system
- data security with triple storage of data (in the data logger, in the access point and in the database)
- secure future with an open and expandable system

Focus on the customer – purchase decision

The HD35 wireless data logger system offers the cold storage operator the optimal solution for their requirements. The data recorded from several cold storage facilities and laboratories is stored collectively in a local database and is accessible to and viewable from multiple work stations at the same time.

The customer also benefits from the optical and acoustic alarm signalling, as well as the possibility of expanding the overall system with additional data loggers almost arbitrarily. Consequently, using the GHM GROUP's technology ensures cost-effective and future-proof implementation.

