



Automation

Standard Feerum control cabinets are manufactured based on innovative products of Eaton company. Each device powered from the control cabinet is properly secured. In addition, the start-up of equipment from the power of 5.5 kW is realized by soft starters. We have our own group of qualified automation engineers and electricians.

We offer **2 ways of controlling the object**: manual and automatic. Automatic control, depending on the size of the object, is made through a touch operator panel or a computer (SCADA system) with the LCD monitor. The client can control the entire process technology from the operator terminal. This process is illustrated on the LCD monitor or panel, where one can check, e.g. temperature, the level of filling grain in silos and dryers, operating status of individual sensors, times of switching on and shutting down the equipment, the number of engine operating hours, etc. In addition, customers have the opportunity to review the working of the object on-line in places where there is a constant access to the Internet as well as data archiving (optional extra).

To control the technological process we use high-quality capacitive sensors in explosion-proof making and with ATEX certification thanks to which we receive confirmation of **filling the silos or dryers**. In order to get a preview of the level of grain in a silo, we use radar sensor (optional).

The direction of the grain filling is indicated by inductive sensors installed on dividers. The sensors are installed both on electrical and manual dividers. Thus the possibility of operator's mistake is eliminated when shifting the divider. Inductive sensors are also used for signalling the closing or opening of the electric gate what increases its operating precision.

In silos, to **control the temperature** of stored grain we use temperature probes with digital sensors. Measurement of the temperature during the drying is based on PT100 sensors.

The bucket elevators use inductive sensors as **motion sensors monitoring the rotational speed of the elevator** and capacitive sensors **measuring the tape convergence (optional)**.