



EGE range of pressure and level controllers from Countapulse Controls

Monitoring of pressure and level in pipes and containers should be a simple task, and the EGE range of pressure and level controllers are designed to accomplish this with absolute accuracy and ease.

Available from Countapulse Controls, these compact sensors are suitable for monitoring gas, steams and fluids. Applications include overflow protection, starting and stopping of pumps and leakage detection.

Utilising a high accuracy capacitive ceramic pressure transducer makes EGE's sensor an effective fill level monitor as well. The unit can record fill levels with an accuracy of 1 cm in containers that stand 5 m high.

Gerry Bryant, managing director of Countapulse Controls, says that measurement instruments with a 1000 mbar measurement range have proven to be useful in this type of application. „When measuring the fill level of water for example, 10 mbar of pressure will correspond to a 10 cm water height,“ he explains. The fill level measurement is not affected by foam on the liquid's surface or by suspended matter inside the container. The pressure value is digitally displayed.

The EGE pressure/level controller is a compact device that contains all the measurement and evaluation electronics. It is designed for use with 24 vdc power. The unit incorporates many programmable features and provides two PNP switch outputs or a 4 to 20 mA analogue output.

Designed to screw into the wall of a pressure container or a pipe, the sensor's ceramic gauge head contacts the medium directly. This eliminates the need for a pressure mediating fluid.

Pressure in the medium will cause the measurement membrane to deflect by a maximum of 0,03 mm. At maximum deflection the membrane lies against the ceramic carrier enabling an instrument designed for a pressure range of 0 to 1,6 MPa to withstand an overload or pressure spike of up to 6,4 MPa without being damaged. When the overload condition passes, the membrane returns to its neutral position.

Three buttons and a four-digit LED display allow the user to calibrate the sensor measurement range and to programme the PNP switch outputs, and the buffering

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