

Pressure and level monitoring made simple

Monitoring of pressure and level in pipes and containers should be a simple task, and the EGE range of pressure and level controllers is 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.

Using 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.

Countapulse Controls MD **Gerry Bryant** says that measurement instruments with a 1000 mbar measurement range have proved to be useful in this type of application.

Both integrated PNP switch outputs are freely programmable, allowing the user to adjust the limit value hysteresis and functionality type, as needed

„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 V dc power.

The unit incorporates many programmable features and provides two PNP switch outputs or a 4 mA 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 bar to 16 bar to withstand an overload or Pressure spike of up to 64 bar 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.

Both integrated PNP switch outputs are freely programmable, allowing the user to adjust the limit value, hysteresis and functionality type, as needed.

An LED Signals the switching conditions of the PNP switch Outputs.

The programmed data is stored in an EPROM, providing security even in the event of a Power failure.

With branches in Cape Town, Durban, East London and Port Elizabeth, Countapulse Controls has more than 40 years experience in the following fields: counting and measuring, in totals, batches or lengths; absolute and incremental positioning; rotational and linear speed measuring and monitoring; inductive, capacitive and optical proximity switching and sensing - with analogue or digital outputs; and electronic flow and level monitoring.

The company has the facilities and the know-how to adapt, calibrate and modify individual instruments or to combine them to complete systems to meet



COMPACT

The EGE sensor is suitable for monitoring gas, steams and fluids

customers' particular applications.

The company's products include specialised couplings; position and velocity transducers; inductive, capacitive and optical sensors;



GERRY BRYANT

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electronic flow and level switches; precision measuring wheels; electronic, electrical and mechanical counters and accessories; optoelectronic switches and systems; safety light curtains magnetic reed and level switches; analogue and digital stroboscopes and proximity switches and sensors.

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