

Press Release 4/2003

SNT Sensortechnik AG, 8153 Rümlang (Switzerland)

Ultrasonic sensors resistant against chemicals

Ultrasonic sensors are used in industry and automation for measurement of distances, levels and proximity. They detect also under harsh environmental conditions and independent of the target material properties. They are maintenance free and have a long service life, even under permanent operation.

The UPR CP series sensors are specially designed for use in a chemically harsh environment. The high resistance is based on PVDF resp. PTFE material. The front part exposed to the medium is made of PVDF (upon request also of PTFE). Both are extremely robust and resistant materials. PTFE is even little more resistant, but softer than PVDF. The outstanding feature is the ultrasonic transducer which is PTFE foil covered, too. However it is permeable for ultrasonic waves. The rear part of the sensor with cable and potentiometer is made of stainless steel resp. polyamide (not resistant against acids). A typical application is the level measurement of acids and lyes in smaller containers. The sensor works in a distance range of 200...1000mm. It is available as distance sensor with analog output as well as proximity switch with PNP or NPN output. For OEM applications the shape of the housing can be customized. Actually two designs are available as standard products.

SNT Sensortechnik AG is a specialist in ultrasonic sensors for more than 20 years.



UPR CP Ultrasonic Sensors