

RIPRESS *premium*

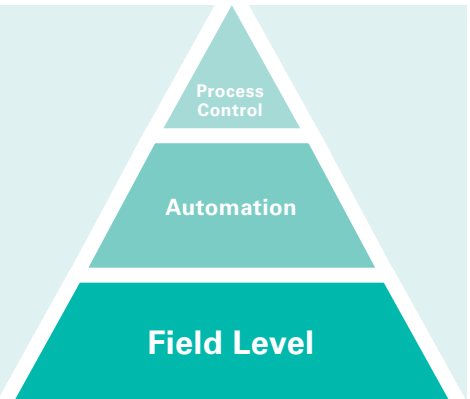
High Precision Level Measurement



Reservoir Level and Volume Management
Superior Accuracy and Long Term Stability
Hydrostatic or Pneumatic Pressure Measurement

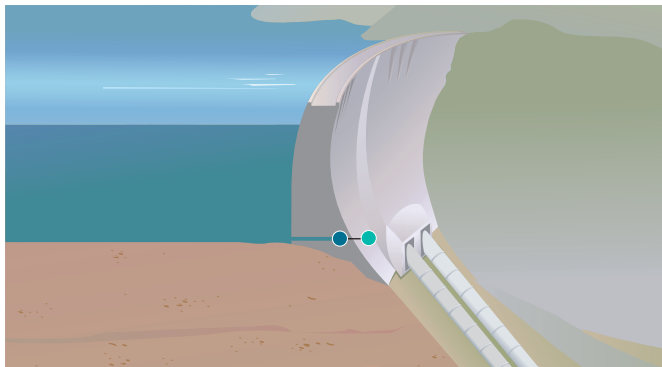
FEATURES AND BENEFITS

- Very accurate calculation of storage water volume (resolution < 1 mm H₂O)
- Cost savings by optimization of the water balance
- Transmitters for hydrostatic or pneumatic pressure measurement
- Superior accuracy of typical < 0.01% FS (quartz crystal sensing element)
- 100% thermal compensation with quartz crystal temperature signal
- Excellent long-term stability (near-zero drift of sensing technology)
- Controller with built-in web server for easy configuration
- Up to four measurement sections per Controller
- IEC 60870-5-104 and Modbus RTU/TCP communication



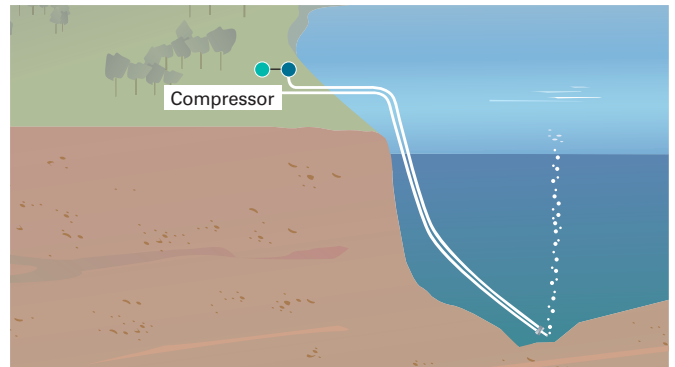
RIPRESS premium Applications

Hydrostatic Level Measurement



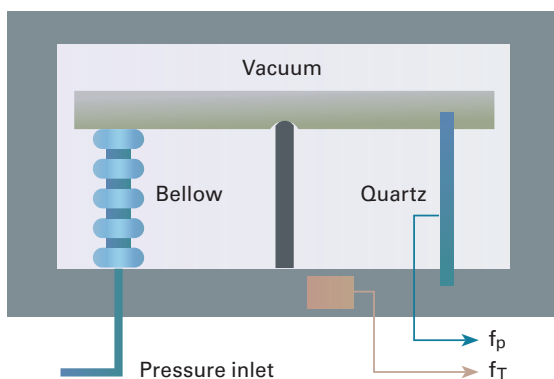
Sensor has direct contact with water.

Pneumatic Level Measurement



Sensor measures counter pressure produced by an air compressor and has no direct contact with water.

Sensing principle



- f_p : the oscillation frequency of the precision quartz crystal resonator is a function of the applied pressure.
- f_T : the resonant frequency of the quartz crystal temperature sensor is used for thermal compensation of the calculated pressure.

RIPRESS premium Measurement

	hydrostatic	pneumatic
maximum Pressure range	0...275 m H ₂ O	0...135 m H ₂ O
Temperature	+5...+60 °C	-10...+60 °C
	+40...+140 °F	+14...+140 °F
Accuracy (typical)	< 0.01% FS	< 0.01% FS
Resolution	< 1 mm H ₂ O	< 1 mm H ₂ O

Controller functions

- Math functions: Add/Sub/Mul/Div/Pow/Int/Diff/Filter
- Programmable conversion tables (e.g. for lake volume)
- Integrated data logger with remote access
- Trend function and limit value monitoring
- SMS alarm via external GSM/GPRS modem

