



Level



Pressure



Flow



Temperature



Liquid Analysis



Registration



Systems Components



Services



Solutions

Micropilot M in Sulphuric Acid

FMR231 measures reliably in Aggressive Media



Vessel with Sulphuric acid



FMR231



Chemicals, the customers business

FMR231 outrivals a competitors' level transmitter.

Customer Profile

The customer is a privately owned chemical distribution company that provides commodity chemicals and custom designed delivery systems.

Application

Two vessels filled with the very corrosive H_2SO_4 . Sulphuric acid has many applications, including many chemical reactions and production processes. It is the most widely used industrial chemical.

Process Information

Medium:	Sulphuric Acid
Vessel:	Cylindrical
- Height	9 ft (2.7m)
- Diameter	7 ft (2.1m)
Location:	Mounted outside

Solution from Endress+Hauser: FMR231 with PTFE antenna

Instrument description

The Micropilot M is used for continuous, non-contact level measurement of liquids, pastes, and slurries.

The measurement is not affected by changing media, temperature changes, gas blankets or vapors.

The FMR 231 has its strengths wherever high chemical compatibility is required. The rod antenna with inactive length guarantees a reliable measurement in narrow nozzles and has no problems with build-up or condensation.

The FMR231 can handle process temperatures up to +300°F (150°C) and has a frequency range of approx. 6GHz.

Benefits for the customer

PTFE antenna can withstand harsh chemicals.

Antenna is not in contact with medium.

Result

Beside the FMR231, the customer also purchased two RMA421 digital display power supply units, two RIA displays, a Promag 53 electromagnetic flow meter with Flex IO batching, a DC 11TAN capacitance probe and a FMU230 ultrasonic transmitter. The customer very satisfied with our instruments.

Endress+Hauser 

People for Process Automation



Tank overview



Installation of the instruments on top of the vessel



Other instruments installed in the plant

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