



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



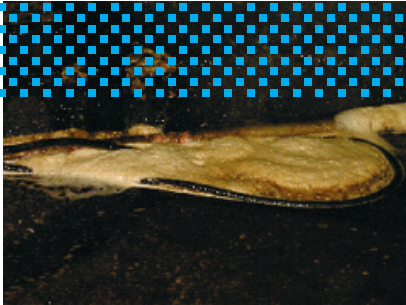
Services



Solutions

Cerabar M PMC45 in Black Liquor- Pulp/Paper

PMC45 is used for Level Detection



Black Liquor



Cerabar M



Plant

Cerabar M is used for level measurement.

Customer Profile

A forest products company that has become one of the top pulp producers in North America, manages 2.9 million hectares of timberlands (42.6% is productive) to supply most of its fiber requirements for its pulp mill. Typically, one third of the total production is softwood pulp and two-thirds is hardwood pulp for sale to the world market.

Process Information

Medium:	Black Liquor
Application:	Process vessel
Process Temp.:	230 to 248°F (110 to 120°C)
Surface:	Wavy
Challenge:	Black Liquor is very aggressive

Competition

The customer has used pressure transmitters from a competitor in the past. The best result that they have reached was a working period of 1 month. After that time the metal membrane was destroyed. After changing their chemical process (to optimize the production) it was even worse for the competitors' pressure transmitter; therefore, the customer was looking for another solution.

Initial Solution

Deltabar S PMD70
It has been working for one year. It even worked at a process temperature of 248°F (120°C) although it is only rated for 185°F (85°C). But after one year the instrument failed as well (sensor electronics was destroyed). Nevertheless, the customer never had any problem with the ceramic cell itself.

Final Solution from E+H

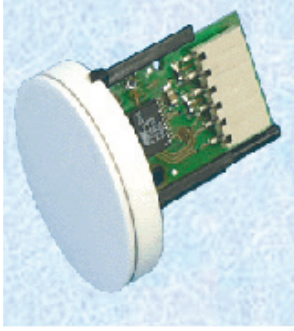
Cerabar M PMC45 - RC11F4A1KU7

Benefits for the customer

- No problem with the aggressive medium because of the ceramic cell
- No problem with 248°F (120°C) process temp (PMC45 is rated up to 257°F / 125°C)

For more information contact:

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Ceramic cell from Endress+Hauser

ISO 9001:2000 Certified

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