



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services



Solutions

Cerabar M PMP 45 Level Measurement Using Pressure- Food

Cerabar M PMP 45 in aseptic processing and packaging of soy milk



Storage tanks



Cerabar M PMP 45 pressure transmitter



Food varieties

Product information

The decision to standardize on the PMP 45 was an easy one for a company involved in aseptic processing and packaging of soy milk, as easy as it was to retrofit the PMP 45 into the system's existing sanitary tank spuds. The company, based in the dairy-producing regions of the northern Midwest, had tried many other level transmitters, but no other offered all the advantages inherent in the PMP 45.

The PMP 45 is a HART® smart device. This customer typically uses the devices on tall milk silos, up to 40 to 60 feet in height. Other transmitters required that the silo be empty for zero adjustment and full for a span adjustment. The PMP 45 with HART allows the user to walk up to the transmitter and to zero/span the tank even when the silo is empty. HART aids setup and configuration.

The PMP 45 is a compact transmitter available with a 316 SS housing. Other units used offered only remote electronics, which required finding a proper mounting location and purchase of additional mounting hardware. This additional connection point is one more place for moisture to enter the system and to cause problems. The PMP 45 was provided with a pre-wired transmitter, which was wired into an existing junction box. The installation method makes the transmitter water-tight.

Instrument description

The Cerabar M PMP 45 is an absolute/gauge pressure transmitter, and is ideal for continuous level measurement in tall storage tanks. The PMP 45 offers long term stability of 0.1% per year. Full protection against water and condensation ensures long life.

The reliable electronics of the PMP 45 are a result of Endress+Hauser's more than 50 years of expertise in the development of electronic devices for measurement of process parameters. After unsatisfactory experiences with previously purchased sanitary level transmitters, this dairy processor was pleased to work with a supplier of high quality instrumentation like Endress+Hauser in order to achieve their production and quality goals.

This facility uses tanks with existing weld spud connections from a variety of suppliers, some of which are no longer in business. According to the sales engineer responsible for the account, "the beauty of our PMP 45 transmitter is the flexibility to work in all of the existing process connections."

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