



Level



Pressure



Flow



Temperature



Liquid Analysis



Registration



Systems Components



Services



Solutions

## Increased Productivity and Throughput

Elimination of waste, batch rework and losses with innovative active backup on RTD assemblies with transmitters



Products that require accurate mixing



TMT162 transmitter



Typical filling process

**Batching and filling processes require precise measurement and control to ensure quality products and to avoid loss of product.**

### Customer profile

Manufacturers that use batching processes combined with precise filling processes can now ensure that waste, batch rework and maintenance costs associated with a temperature failure can now rest easy with the innovative active backup feature on the TMT162 in partnership with an Endress+Hauser temperature assembly.

### Application description

Critical temperature measurement for batching and filling processes to control and meet FDA quality and monitoring requirements.

### Application challenges

Temperature measurement at various points during the addition of various ingredients and materials, in both intermediate and the final stages of the product, must be controlled to ensure a quality end product.

Some temperature devices were at critical measuring points because the product had to be at a predetermined value before the batch could run. Failure of these devices would ruin an entire batch resulting in reworking the batch, lost time, profits, maintenance costs and potential contamination.

### Instrument used

TMT162 transmitter in partnership with TH27, TH13 or TH14 temperature sensors.

### Solution

Replace temperature transmitters that do not have advanced features with a TMT162 unit with innovative active backup capability.

The TMT162 has an active backup feature that utilizes a dual sensor input, and constantly checks for any interruption of the sensor signal or failure. Should a failure occur, the system automatically switches to the backup sensor. This is done without loss of a measuring value.

The transition happens instantly, and the process does not lose this critical measurement, resulting in a controlled batch.

This greatly reduces downtime, increases throughput, and saves money associated with botched batches.

For more information, contact Endress+Hauser, Inc. 317-535-7138 [www.us.endress.com](http://www.us.endress.com)

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