



Level



Pressure



Flow



Temperature



Liquid  
Analysis



Registration



Systems  
Components



Services



Solutions

# FTM20 Controls Pneumatic Conveyor at Vessel Filled with Plaster and Cardboard- Building

Soliphant T FTM20 high level detection is not influenced by pneumatic knocker



Plaster is used on many construction sites



Soliphant T FTM20, FTM21



Painting plaster trim on new home

**Soliphant T FTM20 is used as a high level detection device to control a conveyor attached to a recycling vessel in a gypsum plant. A pneumatic knocker connected to the vessel does not influence the switch point.**

## Company profile

Manufacturer of building materials located in Germany with main focus on gypsum-based materials. In addition to plasters and plastering accessories, this company also manufactures insulating materials made from glass fibers.

## Application

The FTM20 is used to control the pneumatic discharge of materials in a recycling vessel. When the high level is reached, the vessel is emptied pneumatically. The material is moist and very dusty during the process.

Material: Plaster powder and ground cardboard  
Bulk density: 28 lb/ft<sup>3</sup> (450 g/l)  
Filling/emptying: Cycles several times per hour

## Application challenges

Strong blows by a pneumatic knocker to loosen the material during discharge, and build-up due to moist powder.

## Results

The FTM20 continues to provide accurate switching even with the pneumatic discharge blows, and has no problem with build-up.

## Instrument description

The Soliphant T is a robust level limit switch for silos with fine-grained or coarse non-fluidized bulk solids.

A piezoelectric drive excites the probe rod to its resonance frequency. If a bulk solid covers the vibrating rod, the vibrating amplitude changes, which causes a switch point. The electronics compare the actual amplitude with a target value and indicates whether the rod is vibrating freely or whether it is covered by material.

For more information, contact  
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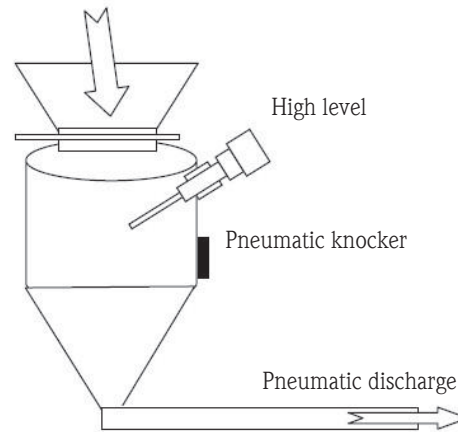
Soliphant T FTM20 mono-rod high level limit switch



Vessel with pneumatic knocker that helps to discharge vessel



Soliphant T FTM20  
mono-rod



ISO 9001:2000 Certified

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