

## Application – Thickness Measurement of Drywall

### The Application

Wet gypsum is run through a press roll and onto a conveyor belt. The press roll regulates the thickness of the drywall. However, measurements of the material on the conveyor belt are made to ensure the quality of the manufactured board.

### The Problem

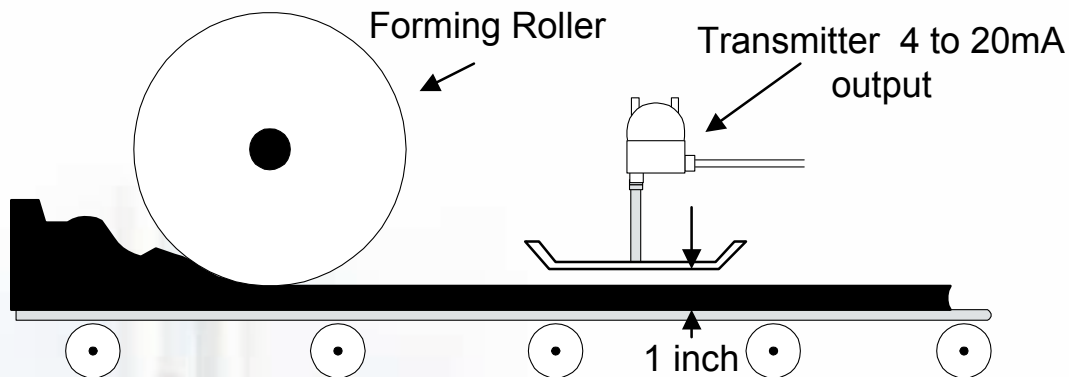
The tolerance of the drywall is plus or minus 1 mm. In most facilities, the production line is stopped occasionally and manual measurements of the board are made. The manual measurement is time-consuming and shutting down the line reduces output.

### The Solution

AMETEK Drexelbrook installed an RF continuous transmitter using a sensing element with a 14-inch x 14-inch plate. This plate allows the transmitter to make a non-contact proximity measurement. The thickness of the drywall is continuously monitored and no longer requires stopping the conveyor.

### Benefits

- Continuous monitoring of the drywall thickness ensures quality and increases production.
- HART smart RF transmitter for easy calibration from anywhere in the loop.
- No routine maintenance required. Install it and forget it.



Proximity Measurement of Drywall Thickness

### Other Solutions:

- Gypsum silo's
- Gypsum slurries
- Fuel Oil
- Waste Sump
- Make-up Water

### Typical Uses:

- Continuous Level
- Point Level
- Waste Management
- Inventory Management
- Overfill Protection
- Regulatory Compliance

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**AMETEK®**  
**DREXELBROOK**

205 Keith Valley Road  
Horsham PA 19044 U.S.A.

E-mail - [drexelbrook.info@ametek.com](mailto:drexelbrook.info@ametek.com)

Web - [www.drexelbrook.com](http://www.drexelbrook.com)

AMETEK Nihon Drexelbrook  
2 Chome • 12-7 Minami Gyotoku  
Ichikawa City • Chiba 27201 Japan  
Phone: 81-473-56-6513  
Fax: 81-473-56-6535  
E-mail: [nd@nihon-drexelbrook.co.jp](mailto:nd@nihon-drexelbrook.co.jp)

AMETEK Singapore Pte. Ltd.  
10 Ang Mo Kio Street 65  
#05-12 Techpoint • Singapore  
Phone: 65-6484-2388  
Fax: 65-6481-6588  
E-mail: [aspl@ametek.com.sg](mailto:aspl@ametek.com.sg)

AMETEK Precision Instruments Europe  
Rudolf-Diesel-Strasse 16  
D-40670 Meerbusch Germany  
Phone: 49-2159-9136-0  
Fax: 49-2159-9136-39  
Web: [www.ametek.de](http://www.ametek.de)