



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services



Solutions

Prosonic FDU95 and FMU90 in a Feed Mill-Animal Feed

FDU95 and FMU90 in a Solids Application



Check the filling on the computer screen



FDU95 with FMU90 transmitter



Corn

FDU95 replaces a competitor's ultrasonic transmitter.

Customer Information

This customer runs a feed mill in Canada. The mill manufactures bulk pellet feed for hog and poultry operations.

Application

Silos filled with corn, barley, wheat and soy

Process Information

From a control room overlooking the loading bay, operators run the mill from a number of computer terminals. From these terminals, on extremely user friendly screens, the raw materials can be loaded, milled, mixed, pelletized, and delivered to the customer without anyone having to go into the plant. The automation software was designed by a Canadian company and is very technologically advanced. They are looking for sophisticated measuring systems which would be able to integrate with the automation software, and yet be accurate, reliable, low maintenance, and cost effective.

Challenge

Narrow silos (reflection from the side)
Dust

Competition

The customer tried different ultrasonic transmitters from our competitors → rather unsuccessful.

Solution from Endress+Hauser

FDU95 with a FMU90

Instrument description

FDU95

Prosonic FDU is a series of ultrasonic sensors with different measuring ranges for continuous, non-contact measurement of level and flow.

Solids: 148 ft (45 m)

The material to be measured can be aggressive liquids such as alkali or acid, or powdery and clumpy solids such as grain, coal, ore and gravel

FMU90

A Prosonic FMU90 ultrasonic transmitter is for use with the Prosonic FDU95.

The transmitter determines levels in silos and tanks and calculates the volume of solids and liquids they contain.

With the appropriate certified sensor, measurements can be made in explosion hazardous areas, zone 1 or in combustible dusts.

Benefits for the customer

The measuring system is insensitive to dirt and build-up, weather resistant and safe against submersion (NEMA 6P / IP 68) and allows quick commissioning and stable measurement thanks to signal pattern recognition by fuzzy logic and the application parameter.

Furthermore, the FDU95 has no problem with reflection from the side.

Endress+Hauser

People for Process Automation

ISO 9001:2000 Certified

USA

Endress+Hauser, Inc.
2350 Endress Place
Greenwood, IN 46143
Tel. 317-535-7138
Sales 888-ENDRESS
Service 800-642-8737
Fax 317-535-8498
inquiry@us.endress.com
www.us.endress.com

Canada

Endress+Hauser Canada
1075 Sutton Drive
Burlington, ON L7L 5Z8
Tel. 905-681-9292
800-668-3199
Fax 905-681-9444
info@ca.endress.com
www.ca.endress.com

Mexico

Endress+Hauser Mexico, S.A. de C.V.
Fernando Montes de Oca 21 Edificio A Piso 3
Fracc. Industrial San Nicolas
54030. Tlalnepantla de Baz
Estado de Mexico
Mexico
Tel. (52) 55-5321-2080
Fax (52)-55-5321-2099
eh.mexico@mx.endress.com
www.mx.endress

CS1244/24/ae/06.08

Endress+Hauser 
People for Process Automation