

SILO LEVEL MONITORING

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Project Story

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In September 2022 PT Falkonet Kontrol Elektrika won a project Cement Silo Level Monitoring in PT Indocement Tunggal Prakarsa.

Total of 52 units of SITRANS LR560 were installed in cement silo in Citeureup Plant to ensure their production of cement with digitalization.

For many branches of industry, the Internet of Things (IoT) is seen as a spearhead for a revolution in manufacturing. IoT is an essential part of an initiative called Industrie 4.0. No exception for cement industry.

“Our capabilities can be used in the Cement Industry to benefit from digitalization which helps to tackle the challenges facing the industries e.g. demand for increased productivity, efficiency, optimization, and longer lifecycle time”



SIEMENS SITRANS LR560 is the first choice and easiest-to-use solids radar transmitter on the market. With a high frequency of W band (78 GHz), 4-degree narrow beam, and short wavelength, it performs reliably on solids material from practically any installation location.

Benefits

- ✓ Process Intelligence – advanced echo processing for reliable performance
- ✓ Easy setup with local display interface (LDI) with Quick Start Wizard or remote access via EDD or DTM
- ✓ W band (78 GHz) high frequency provides very narrow beam, virtually no mounting nozzle noise, and optimal reflection from sloped solids
- ✓ Rugged stainless steel design for industrial applications
- ✓ Aimer flange for optimizing readings in the silo cone area
- ✓ Push buttons or optional Intrinsically Safe infrared handheld programmer for local interface
- ✓ Lens antenna is highly resistant to product buildup
- ✓ Air purge connection is included for self-cleaning of extremely sticky solids

SIEMENS SITRANS LR560

Detail

Range	100 m (328 ft)
Process Connections	3"/DN80, 4"/DN100, 6"/DN150 Stainless Steel Universal flat faced flanges 3"/DN80, 4"/DN100, 6"/DN150 painted aluminum aimer flanges
Process Temperature	-40 to 200 °C (-40 to 392 °F)
Process Pressure	Up to 3 bar g (43.5 psi g)
Accuracy	5 mm (0.2")
Communications or Outputs	mA/HART, PROFIBUS PA, or FOUNDATION Fieldbus
Options	Graphical local display interface (LDI)
Key Applications	Cement powder, plastic granule/pellets, grain, coal, wood powder, fly ash, sea and river level