



LEVEL

VOLUME

3D PROFILE

RAT HOLES

LEVEL \neq VOLUME

3D RADAR LEVEL TRANSMITTER



*“Changing the Market from
Level to Volume”*

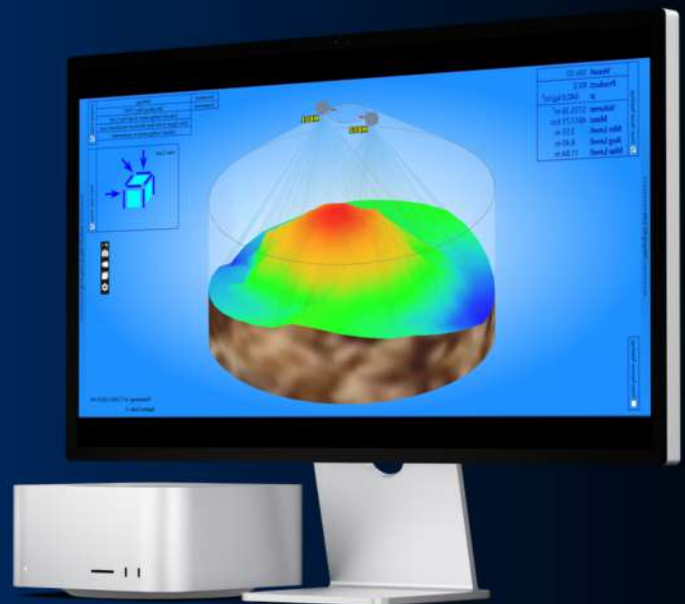
www.eipenviroindia.com

Measuring at Multiple Points (5 & 64 Points)

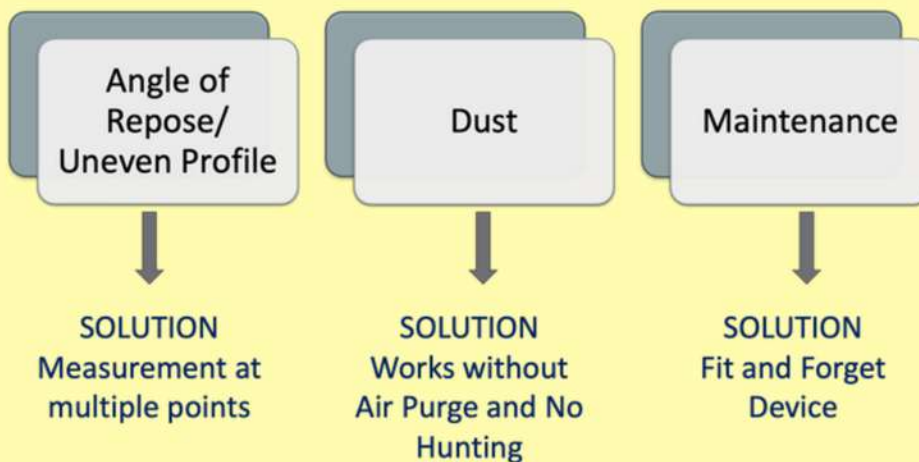
World's First
3D Radar

REAL TIME

ACCURATE



Challenges of Solid Level Measurement



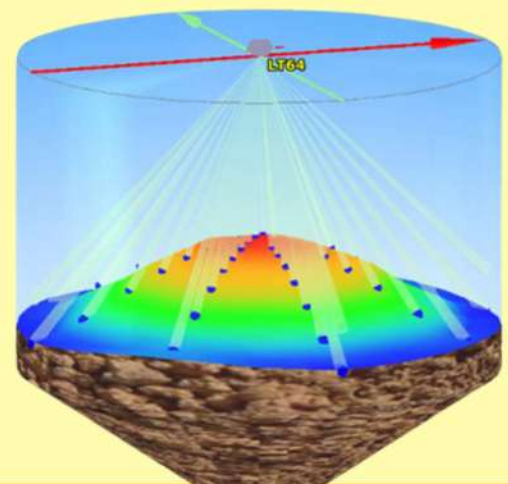
Solution for the Challenges in a Snap
Our 3D RADAR has all of it Integrated in one

Solution for Uneven Profile of Bulk Solids and Powders

Our 3D Radar Level Transmitter measures at Multiple Points (Five and Sixty Four Points) inside the Silo/ Bunker or a Stockpile. Multi Point measurement ensures the Problem of Uneven Surface Profile Found in every Solid Application is solved forever



Answer to Heavy Dust
140 GHz of Operating Frequency



CUSTOMERS CALL US EXPERTS IN SOLID LEVEL MEASUREMENT

3D Radar Level Tx in a Silo brings peace of mind to the Customer and Solves the >>>>

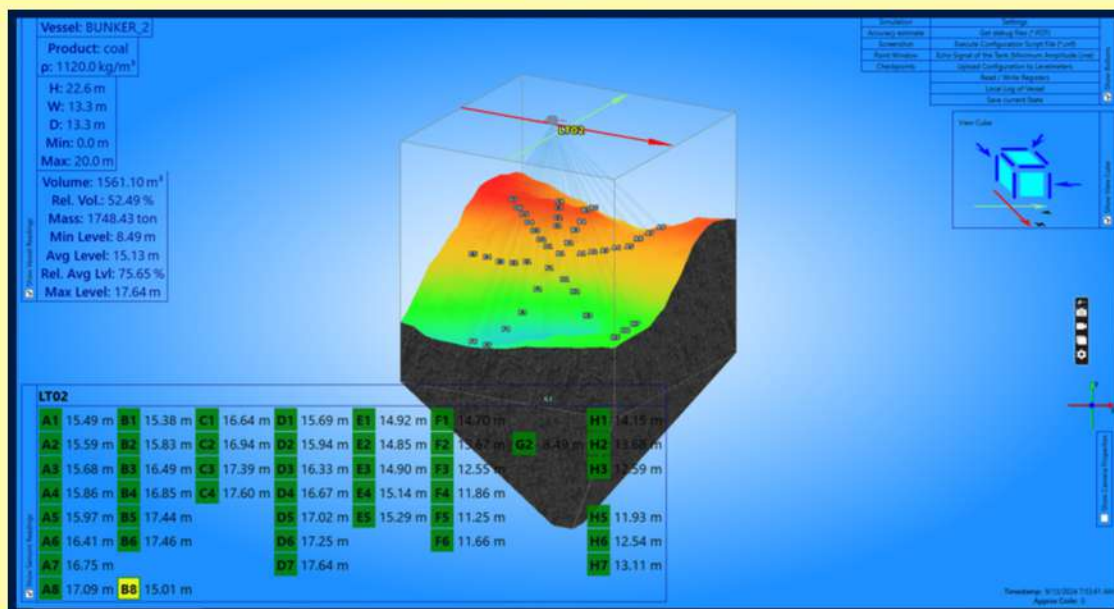
Operator's Paradox



"According to me the **Volume should be 44%** but the **Single Beam Silo Radar Level Tx shows only 8%.**

How is it even possible. Let me do a manual measurement"

Exact words of an Operator handling Bulk Solids in a Silo

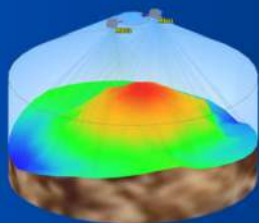


ULM-3D-5
5 Beams



ULM-3D-64
64 Beams

Technology behind the 3D Radar Level Transmitter



Accurate Inventory

Avg. Level, Max Level, Min Level, Volume, Mass and Real Time 3D Profile of Material inside the Silo



Detect Rat Holes / Bridges

Silos storing bulk Solids often have Rat Holes and Bridges which our 3D Radar can detect easily

Volume: 1561.10 m³
Rel. Vol.: 52.49 %
Mass: 1748.43 ton
Min Level: 8.49 m
Avg Level: 15.13 m
Rel. Avg Lvl: 75.65 %
Max Level: 17.64 m

Safety / Predictive Stock

You can always rely on the values of 3D Radar to ensure adequate Stock in Silo in times of need



Never Worry about Level

Users report that with the 3D Radar in their Silos they never climb the Silo or worry about level & volume

Four Important Reasons

Why you must switch to a 3D Radar Level Transmitter today

ALL THE INFORMATION YOU NEED FOR YOUR NEXT 3D RADAR

RADAR MODEL

Application

Software Output

Range

Opr. Frequency

No. of Beams

No. of Antennas

Update Time

Power Supply

Output

Accuracy

Resolution

Repeatability

Opr. Temp.

Opr. Pressure

Configuration

Housing

Sensor

Load Impedance

Protection

Failure Output

ULM-3D-5

Bulk Solids and Powders

Avg Level, Max Level, Min Level, Volume, Mass and Real Time Profile of the Material

50m / 100m

140 GHz

5 Beams at any instant

5 Antennas

Less than 1 Sec

24VDC (4 Wire)

4-20mA HART (4 wire) /
RS485 Modbus

Upto +/-1mm (Level)
3%-4.5% of Full Span (Volume)

1mm

Upto +/-1mm

-40°C to +150°C
-40°C to +250°C / +450°C

-10 Bar to +20 Bar

Through RS485 PC Software

Aluminium

PTFE Lens Antenna

700 Ohms

IP67

 II 2D Ex tb IIIC T85°C Db

3.9mA/Hold/22mA

ULM-3D-64

Bulk Solids and Powders

Avg Level, Max Level, Min Level, Volume, Mass and Real Time Profile of the Material

50m / 100m

140 GHz

64 Beams at any instant

64 Antennas

Less than 1 Sec

24VDC (4 Wire)

4-20mA HART (4 wire) /
RS485 Modbus

Upto +/-1mm (Level)
1%-1.5% of Full Span (Volume)

1mm

Upto +/-1mm

-40°C to +150°C
-40°C to +250°C / +450°C

-10 Bar to +20 Bar


Through RS485 PC Software

Aluminium

PTFE Lens Antenna

700 Ohms

IP67

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3.9mA/Hold/22mA

Leveraging the 3D Revolution

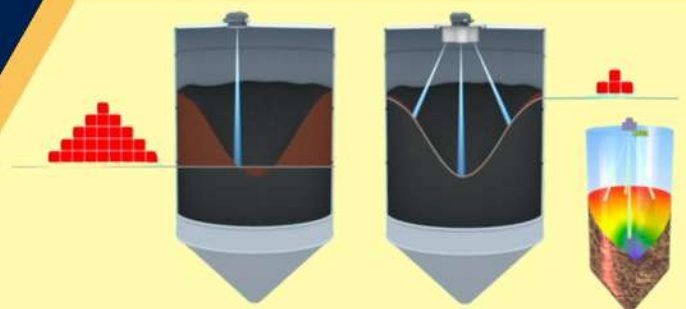
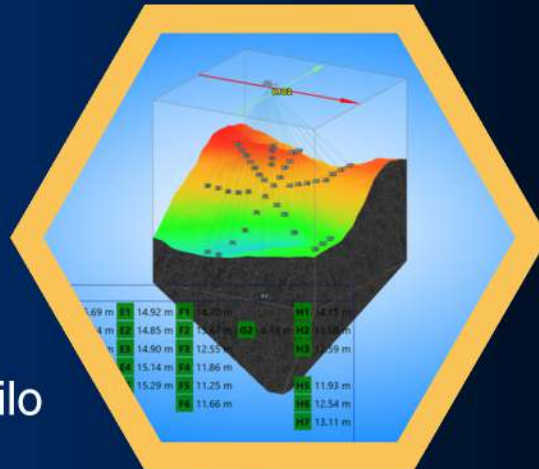
Silos, Bins and Stockyards

At EIP we believe in Solving Problems for our Customers, and our forte being Level Measurement for the last 40 years so we built the World's First 3D Radar Level Transmitter

Applications Solved:

- Coal Bunker and Fly Ash Silo
- Clinker and Cement Silo
- RMHS, SMS, Sinter, PP, LCP Silos
- Urea, DAP, NPK, Dust Silos
- Bauxite Silos and Ground Bunkers
- PP, PVC, LLDPE Silos
- Grain Silos
- and many more

“Single Beam Radar is the one of the most common reasons for dis-satisfaction when it comes to Silo / Bin/ Stockyard Level Measurement in Process Plants across the globe”



3D RADAR LEVEL TRANSMITTER

Volume is new Level

EIP as a name was established in the year 1983 and built on the foundation of solving the level measurement problems for its customers with advanced yet affordable solutions. Currently situated in the heart of industrial estate of Noida, with four manufacturing units, EIP's focus on the niche called "level measurement" has led to their diverse portfolio of such solutions, of which **3D Radar Level Transmitter** is **one of the biggest game changers**.

Since the last four decades EIP's Level Measurement Solutions have helped countless process industries improve efficiency, reduce costs, and ensure safety—making EIP as one of the Top Radar Level Transmitter Manufacturers in India.

JOIN THE 3D RADAR REVOLUTION

"LET YOUR SILO/ BIN BE AT PEACE"



EIP ENVIRO LEVEL CONTROLS PVT LTD

B45-46 & F-60 Sector-8, Noida-201310

Uttar Pradesh India

info@eipenviroindia.com

www.eipenviroindia.com

+91-120-4243333/ 7982357473/ 798235486



Catalogue Rev 00

***"Solving your problems for Accurate Level and Volume Measurement
in Silos / Bins and Stockyards storing Bulk Solids and Powders"***