

INTRODUCTION TO 140 GHz RADAR LEVEL TRANSMITTER WITH 2 DEGREE BEAM ANGLE

Please find attached below a brief description on 140 GHz Radar Level Transmitter

We would like to introduce our 140 GHz Radar Level Transmitter as per the enclosed details which is the WORLD's HIGHEST FREQUENCY RADAR (with Beam Angle of 2 Degree) and also has an inbuilt 2 Axis Inclinometer.

Our 140 GHz Radar Level Transmitter provide solution for Level Measurement for typical applications where there is fast filling and empty rate, high temperature MOLTEN METAL LEVEL MEASUREMENT upto 1600 Degree C, pressure and difficult to measurement medium characteristics like low di-electric, for Silo and Bunkers with Critical Solids/ Powders ad Liquid Applications. We have done successful installations of the same in mining industries, chemical, power and glass industry, and rubber industry where the applications are critical and conventional level measurement solutions are not providing optimal solution.

Please find enclosed herewith few details on our above solution.

We shall be grateful if you kindly consider the same for your various applications. Thanking you in anticipation of above assuring you of our best services at all times.

Yours faithfully, **Team EIP**



RADAR LEVEL TRANSMITTER

ULM-31A1-HF

Frequency up to 140 GHz!



THE NEW RADAR LEVEL TRANSMITTER PROVIDING THE MAXIMUM RELIABILITY OF MEASUREMENT OF LEVEL.

Radar level transmitter ULM-31A1-HF is an absolutely new level transmitter! It has extremely narrow beam 2° and wonderful sensitivity! It perfectly measures level of loose materials and liquids. It came up very well in solving difficult tasks!

Main technical characteristics

 accuracy of level measurement operational frequency beam width environmental temperature measurement range 	±3 mm 120-140 GHz 2° -40+50° C	
		0,6-50 m

- Bluetooth
- · built in real time clock
- keeping of debugging records in non-volatile memory
- storage of calibration tables and recalculating of level into volume

ULM-31A1-HF

is recommended for work in process control systems.

Official international declara-

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ULM-31A1-HF

technical characteristics

Principle of measurement Non-contact RADAR, FMCW

Level measuring accuracy ±3 mm

Measuring beam width 2º

Range of level measuring 0,6 - 50 m

Environmental temperature from -40 to +50°C

Additional thermal error not detected

Temperature of measured temperature has no influence medium on measuring accuracy

Contact with container interior not required - can be fully

isolated from the tank interior

content by the radiotransparent layer

Measurements` dependence not detected

on dust level

not detected

Measurements` dependence on evaporation

Embodiment IP65

Power supply 24 VDC

Output analog interface 4-20 mA

Output digital interface RS485 (Modbus RTU), HART

Wireless interface Bluetooth

Discrete output 2 relay contacts

Built in real time clock

Keeping of debugging records in non-volatile memory

Storage of calibration tables and recalculating of level into volume

Weight 6 kg

