

# EchoPro<sup>®</sup> LR41

Pulse Radar Solids Level Transmitter



## Application

The intrinsically safe 26 GHz. pulse radar transmitter provides continuous level measurement up to 229.7' (70m) with a 4-20 mA analog and HART digital signal output, and is configured via its integral push button display module or HART communicator. The non-contact solids level sensor is intended for dry solid media including aggregates, grains, pellets, powders and building materials. Select this sensor for **challenging process conditions with moderate to significant dust**, and installation with an adjustable gimbal flange or mounting bracket. Typical applications include silos, stockpiles, transfer stations and crushers.



## Features

- Rugged 316L stainless steel antenna and process mount
- Configuration via push button display or HART communicator
- Gimbal flange for easy positioning with the angle of repose
- Antenna air-purge for use with significant dust conditions
- LCD displays level in feet or meters with percent of span bar
- Optional display mode indicates the echo signal return curve
- Fail-safe diagnostics with selectable signal fail-safe outputs
- PTFE antenna cover for use with moderate dust conditions
- Recognition, storage and rejection of false echo signal returns
- IP67 stainless enclosure with polycarbonate display window

## Antenna Selection

The sensor is offered in a 4" (98mm) antenna with or without a dust shield. The larger the antenna, the narrower the beam and the stronger the RF signal return. To select the appropriate antenna size and configuration, consider two variables; The measured span distance and the amount of dust within the span. As for dust, when minimal, select the horn only. When moderate, select the horn with dust shield, and when significant, select the horn only and apply a periodic compressed air purge.



PTFE  
Dust  
Shield



LR41-5321-44-00  
Shown

LR97-S006  
Bracket



Push Button  
Display Module

