



# DATASHEET

Radar Level Gauge

## MTG mPuls 62



### Application

- You can use non-contact radar gauges for tank and vessel level measurement on almost any liquid and many solids whether in storage or during processing. It's versatile because it is unaffected by changes to product or process: temperature, pressure, density, conductivity, vapours or dust. MPULS Radar transmitters are non-contact, making them versatile and extremely reliable. All units have built in linearisation software to calculate the level versus shape and provide a direct output of volume on:
  - Radar tank gauging in Bulk Liquid Storage Vessels
  - Overfill Prevention in Bulk Liquid Storage Vessels
  - Level measurement in processing vessels, reactors, blenders, scrubbers and mixers
  - Hygienic radar systems for distillation and purified water vessels - even with water sprays
  - Interfaces on some special applications/liquids

### How Reliable Is It ?

- mPuls radar gauges conform to SIL2 safety requirements. Our gauges have been tested for reliability and performance for use on hazardous products or processes. With MPULS the same transmitter can be used for high or low level switching and tank gauging or continuous level measurement

### Why Use Radar ?

- Radar transmitters fit easily into your process, They can be mounted from the top, sometimes the side or even on the outside through a glass window, plastic or GRP vessel!
  - Very small blocking distances maximise your vessel capacity
  - Installed or changed without emptying your tank
  - Commissioned accurately on or off line without changing the level
  - No moving parts means no drift or recalibration

### Features and Benefits

- mPuls handles agitators and obstructions easily using integral ECHOFOX software
- mPuls features unique, proven software with high sensitivity and wide dynamic range
- A "false echo" system capable of distinguishing unwanted static and moving reflections
- Experience in hundreds of thousands of applications on solids and liquids
- Proven reliability
- Great service, application advice and after sales service

### Measuring Principle

A cone or parabolic antenna generates millions of very short 1 nano second microwave pulses every second. Each pulse is transmitted to and reflected from a product surface. The elapsed time period between transmission and reception of the signal at the speed of light is measured and calculated as a distance. This continuous stream of pulses gives real time level information updated and evaluated many times a second.

