



## Gamma Type Density Gauge

The Gamma Density Gauge Offers a non-contact, non-invasive solution for the accurate measurement of Process Density. This Measurement can be made on liquids or slurries in pipe lines or in vessels.

The measurement system comprises Gamma Transmitter and Gamma Detector Assembly which bolts around the process pipe (with the supplied pipe clamp). The high sensitivity detector allows the use of the smallest gamma sources for increased safety.

Measurement is made on the full bore flow.

Measurement units supported include:

- **SGU**
- **% Solids**
- **BRIX**
- **Others**

Measurement is unaffected by temperature, pressure, viscosity,

flow rate, vibration etc. and a measurement precision of  $\pm 0.1\%$  of Span is typically possible.

In addition to the Industry Standard 4-20mA output, Field Bus support is also available for integration into the plant DCS etc.

The Process Automation Series 400 Gamma Density Gauging System has been designed for minimum maintenance:

- **Non-contacting - unaffected by harsh process conditions.**
- **Solid state electronics - no moving parts.**
- **The decay of the gamma source is fully compensated for electronically.**
- **Built in calibration reference for easy "Standardization".**
- **Supports our priority SAMI Maintenance Programme.**

## Mass Flow Computation

When connected to a volumetric flow meter, computation (and totalisation) of Mass Flow (Wet & Dry) is possible with outputs of:

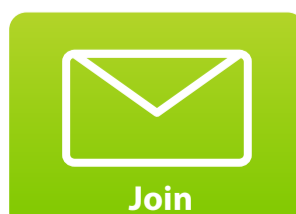
- Density
- Volumetric Flow Rate
- Wet Flow Rate
- Dry Flow Rate
- Totalised Dry Flow Rate

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