



DD-1000 Digital Density Gauge

Nucleonic Density
Measurement of
Slurries, Sewerage
Sludge, and Liquids.



**iPad[®]
Control**

The **DD-1000** is a new advanced nucleonic Density Gauge from **Real Time Instruments**. The unique iPad[®] Interface allows the operator to connect wirelessly to one or many Gauges for full control over all functions and parameters.

Safe.

Operator can stand in a safe and convenient location instead of having to move between gauge sample point and the integrator.

Simple.

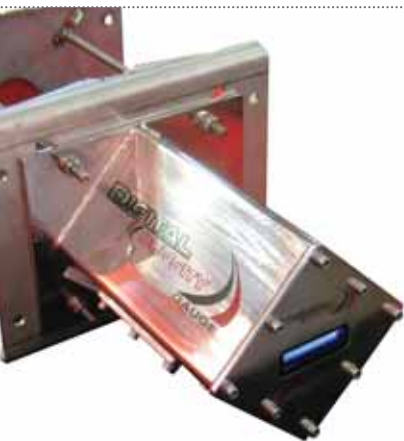
Intuitive and easy to use iPad[®] interface with built in help manual.

Powerful.

Setup, calibration, trending of reference and SG, in-depth detector diagnostics.

Versatile.

One iPad[®] can connect to multiple gauges. Records from all gauges are stored on the iPad[®], just select the gauge of interest from the menu.



- High sensitivity allows use of low activity sources
- Built in protection from high count-rates (empty pipe)
- Rugged design, with built in backlit LCD display
- Repeatability 0.0001 SG
- Automatic Gain Stabilisation

- RTI 500mCi (Cs-137) source holder
- Fully drop tested and fire proof
- All Stainless Steel Construction





Specifications.

Source

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|---------------|--|
| Source Holder | RTI 500mCi / 18.5GBq (Cs-137) source holder <ul style="list-style-type: none"> All stainless steel construction (no lead fill) Drop tested and fire proof Rotary shutter Meets or exceeds internationally accepted safety standards Also compatible with most third party source holders (contact RTI for further information) |
|---------------|--|

| | |
|--------------|-------------------------------------|
| Radioisotope | Double encapsulated Cs-137 or Co-60 |
|--------------|-------------------------------------|

Detector

| | |
|--------------------------|---|
| Detector Element | Sodium Iodide scintillation detector with integral photomultiplier |
| Electronics | All electronics fully integrated into a single module |
| Housing | IP67 316 stainless steel, with stainless steel mounting brackets with multiple mounting arrangements |
| Power | 88-264 VAC single phase, or 24VDC |
| Data Integrity | Radioactive Decay Clock No data loss with power off |
| Communications & Control | Output: 4-20mA for SG (with separate 24V and 240V connections) Setup/Control/Calibration/Diagnostics: iPad® via wireless communications* (iPad® and Density Gauge App included) ModBus® & HART also available |

| | |
|---------|---|
| Display | Integral backlit LCD display on Detector Housing: Displays SG and counts displayed for reference and basic diagnostics |
|---------|---|

Performance and Environmental

| | |
|-----------------------|----------------------------|
| Temperature Drift | ± 0.00003 SG units / °C |
| Operating temperature | 0 – 80 °C |
| Vibration | 2.5 g at 100 Hz |
| Humidity | 5% – 95% RH non condensing |

*iPad® Density Gauge App Features

- Control multiple gauges using 1 iPad®; records from all gauges are stored on the iPad®, just select the Gauge of interest from the menu.
- Detailed Help Manual within the App
- Powerful Setup, Calibration and Diagnostic functions
- Graphical display of SG ; view trend in real time (data logging interval adjustable)
- Histogram Display of reference trend for last 10 water calibrations, showing % variance
- Ability to enter an offset "on-the-fly" if needed to bring the Gauge reading into line with "known" SG
- Full detector spectrum plot for in-depth diagnosis as well as detector resolution and interrogation.
- All data downloadable via iTunes® for backup purposes *and more...*

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