



DIGITAL DENSITY

Nucleonic density measurement of slurries, sewerage sludge, and liquids.

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.

- 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

SAFE

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

POWERFUL

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

SIMPLE

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

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.



- RTI 500mCi (Cs-137) source holder
- Fully drop tested and fire proof
- All stainless steel construction



■ iPad® control



SPECIFICATIONS

Source

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 and 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 also available
Display	88-264 VAC single phase, or 24VDC

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...

LOCATIONS

AMERICAS | ASIA | EUROPE | OCEANIA | AFRICA | MIDDLE EAST

GLOBAL HEADQUARTERS

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