

## Produkt Datablad PQI Electromagnetic density gauge 2



**Produkt nr: TBA**

# Non Nuclear Electromagnetic Density Gauge

The Electromagnetic Density Gauge is a non nuclear sensing device that allows **field density real time measurement of asphalt**. This technically advanced instrument for quality control allows operators to immediately identify spots with low pavement density and trigger corrective actions leading to more uniform pavements.

- Full Color VGA display
- LED backlight for easy visibility in light or dark situations
- Customizable Project Entries
- Customizable Mix Entries
- Diagnostics reading mode
- Data Management Screen and the ability to disable data logging
- Rugged, Lightweight, Aluminum Shell (Reflective vinyl graphics for safety)
- No special license or radioactive materials required.
- Lightweight and easy to use.
- 12 hours of portable operation.
- Measures density in common units (pcf or kg/m<sup>3</sup>).
- Relative moisture detection and correction when necessary.
- Stores infinite records.
- Data download via USB flash drive (semicolon delimited text file format).

The PQI also utilises an advanced GPS system which enables position and independent time logging. A USB port enables the user to easily download data files in a comma delimited file and print out the data. The high capacity Nickel Metal Hydride rechargeable batteries are user replaceable. The easy to navigate user interface will ensure that you get setup quickly on jobs and begin taking reading in just seconds.

Supplied as:

- Main PQI unit
- Storage/shipping case
- Operators Quickstart Guide
- Handle
- 120/220V AC to 12V DC battery charger
- 12V DC Car Charger
- 3 battery packs

External controls on the PQI consist of an ON/OFF switch and 480 x 640 VGA touch screen display for navigating through the user interface and entering alpha/numeric data.

## ***OPERATIONAL SPECIFICATIONS:***

### ***Modes:***

- Segregation – Identifies variations in material density associated with segregation.
- Continuous – Instantaneous density readings.
- Average – Averages five (5) readings and stores data including date and time. Stores thousands of records.
- Single – Reading time less than five (5) seconds. Stores data.

### ***Functions:***

- Density, % Compaction
- Integrated Temperature Sensing – Real time temperature display 0° F to 350° F -17.7° C to 177.6° C

### ***Calibration Modes:***

- Normal – Correlation offset to cores.

**MEASUREMENT SPECIFICATIONS:**

- Sensing Area – 11 in. (27.99mm) diameter base allows optimum measurement on fine and coarse material types.
- Measurement Depth – User selected and adjustable from 1 in. to 4 in. (25mm to 100mm)
- Measurement Display – Density, % Compaction, Surface Temperature, Mix Name & Project Name

**MECHANICAL SPECIFICATIONS:**

- Unit Weight – 6.44 kg
- Unit Dimensions – 27.9cm x 27.9cm x 30.4cm, with handle extension 73.6cm high
- Shipping Weight with Case – 22.22 kg
- Shipping Dimensions – 44.45cm x 47cm x 50.8cm

**ELECTRICAL SPECIFICATIONS:**

- CE Mark Complies with EN6100-4-2, 6100-4-3, 6100-4-8
- Microprocessor Controlled
- Battery 14.0 Amp-hr NiMH 7.2volt
- Recharge Time – 4 hours
- Battery Charger self-contained CE & UL Certified Universal AC Charger, DC Charger
- Port 1 x USB port

Pavement Quality Indicator - non-nuclear to ASTM D7113 and AASHTO T 343-12

## ***OPERATIONAL FEATURES:***

- Display - full color graphics driven user interface
- Status bar - Displays GPS status, Data save status, battery voltage, low battery, date & time
- Project Details - Stores up to 20 projects with details
- Mix Details - Stores up to 20 mixes, details include (MTD, Mix Name, Stone Size, Depth, Offset, Operator Name)
- Data Logging - When enabled, stores all measurements taken in single or average modes (Status Bar Icon)
- Reports - Easily download data to be imported into Excel
- GPS Control - When activated will display latitude & longitude positions, number of satellites that gauge is connected to as well as the UTC date & time, also available in UTM format. GPS information will store with each measurement when Data Save & GPS Feature is enabled (Status Bar Icon)
- Update Software - One touch upload of new software using a USB memory stick
- Data Management - Quickly access, download or delete you project data
- Set Time & Date - Quick time & date setup, MM/DD/YY & DD/MM/YY formats
- Units - Interchangeable settings for Density (kg/m<sup>3</sup>, lb/ft<sup>3</sup>), Temperature (deg C, deg F), Depth (inches, mm) & Stone Size (inches, mm)
- Standardization - While gauge is still in the case, a quick one touch measurement will ensure the gauge is still in proper working mode
- Calculator - Built in four function calculator
- Enhanced Customer Support - Diagnostic screen to aid in factory support
- User Programmable Target Density - Used for calculating % compaction
- User Changeable Battery - easily change batteries in the field