

PQI-380

Non-nuclear Asphalt Density Gauge



The PQI 380 is a lightweight, environmental safe & user friendly equipment which provides **quick and accurate measurement of asphalt density**.

Unlike nuclear gauges, the PQI 380 takes accurate readings in about three seconds, allowing the test technician plenty of time to run a series of tests. Its electromagnetic field is far safer than devices based on nuclear sources and it costs less to own and operate.

Based on a touch screen operating system, the PQI 380 is easy to use by any level of operator.



Features:

- Full color graphics driven user interface, 480 X 640 VGA touch screen display with LED backlight for easy visibility in daylight or dark situation.
- Displays GPS status, Data Save status, battery voltage, low battery date and time.
- Stores upto 20 projects with details.
- Stores upto 20 mixes, details include (MTD, Mix Name, Stone size, Depth, offset, operator name).
- When enable stores all measurement taken in single or average modes. (status bar icon).
- Easily download data to be imported into excel.
- When activated will display latitude or longitude position, number of satellites the gauge is connected to as well as the UTC date and time, also available in UTM format. GPS information will store with each measurement when Data Save and GPS features is enabled, (Status Bar Icon).
- One touch upload of new software using a USB memory stick.
- Quickly access, download or delete your project data.
- Quick time and date setup, MM/DD/YY and DD/MM/YY formats.
- Interchangeable setting for density (kg/m³, lb/ft³), Temp(°C, °F), Depth(in. mm) and stone size (in. mm)
- While gauge is still in the case, a quick one touch measurement will ensure the gauge is still in proper working mode.
- Built in four function calculator.
- Diagnostic screen to aid in factory support.
- User Programmable Target Density used for calculating % compaction.
- Easily change batteries in the field.
- New Status Bar Feature, Displays GPS status, Data Save status, available battery voltage, low battery and date and time.
- Rugged new case design made from .090" 5052 aluminum, powder-coated gloss black with orange reflective vinyl graphics increasing driver awareness to road workers at night.
- New Data Management Feature, quickly access, download or delete your project data.
- Ability to download files to the PQI via USB drive.
- Fast, reliable, accurate and repeatable readings in real time, User friendly, in-process, cost effective tool for any crew member.

Specification:

Modes:

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

Functions:

Density, % Compaction

Integrated Temperature Sensing; Real time temperature display -17.7°C to 177.6°C

Calibration Modes : Normal: Correlation offset to cores

Measurement Specification:	
Sensing Areas	11 in. (27.9mm) diameter base allow 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 Specification:	
Unit Weight	6.44kg
Unit Dimensions	27.9cm X 27.9cm X 30.4cm With handle extension 29in High(73.6cm)
Shipping Weight w/Case	19.27kg
Shipping Dimensions	63.5cm X 50.8cm X 35.5cm
Electronic Specification:	
CE Mark	Compiles with EN61000-4-2, 61000-4-3, 61000-4-8
Battery	14.0 Amp-hrs NiMH, 7.2V
Recharge time	4 hours
Battery charger	Self contained CE & UL Certified Universal AC Charger, DC Charger
Computer Ports	USB Port
Operational Features:	
Display	Full color graphics driven user interface, 480x640 VGA touch screen display with LED backlight for easy visibility in daylight or dark situations.
Status Bar	Displays GPS status, data save status, battery voltage, low battery and date and time.
Project Details:	Stores up to 10 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 and longitude positions, number of satellites the gauge is connected to as well as the UTC date and time, also available in UTM format. GPS information will store with each measurement when Data Save and GPS feature is enabled, (status bar icon)
Updated Software	One touch upload of new software using a USB memory stick
Data Management	Quickly access, download or delete your project data
Set Time & Date	Quick time and date setup, MM/DD/YY and DD/MM/YY formats
Units	Interchangeable settings for density (Kg/m ³ ,lb/ft ³), temp(°c,°f), depth (in,mm) and stone size (in,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
Use Programmable Target Density	Used for calculating % compaction
User Changeable Battery	Easily change batteries in the field

Product supply includes: PQI-380 instrument, Stand Alone Charger

Item code: ST-PQI380

