

## SOIL COMPACTION ANALYZER

◀ Soil Compaction Analyzer mounted on Proctor Soil Compactor



The Rainhart Soil Compaction Analyzer (SCA) is an easy to install upgrade for the Rainhart Proctor Soil Compactor. The provided SCA software measures the compaction energy, monitors compaction blows, and provides quality assurance data used to ensure good correlation with laboratory calculated optimum soil moisture-density value(s). Soil compaction tests are vital in the stability, load capacity, permeability, and settlement of pavements and structures. The SCA is a real-time data monitoring system for proctor and modified proctor testing, which meets and exceeds the requirement of TxDOT specification TEX-113E.

The SCA's user-friendly software calculates the specified test parameters continuously during the compaction process. The rapid sampling of the SCA uses the rammer's position, velocity and known mass to determine the impact energy being imparted to the specimen, per blow, per lift. Knowing the energy is essential to ensure the compactor is capable of correctly compacting the soil material ensuring repeatable compaction energy and accurate moisture-density calculations.

Rainhart's Soil Compaction Analyzer is the only SCA on the market, approved by TxDOT for the analysis of soil compaction testing. The SCA can be quickly and easily mounted on top of the Proctor Compactor. SCA automatically controls the start and stop point of the Soil Compaction process, ensuring the proper amount of energy is always delivered to the sample. All data is instantly displayed on the monitor and can be stored in the computer for future use. The stored data can be reviewed at any time to confirm test protocols and procedures, ensuring proper analysis of the test results.

### FEATURES & BENEFITS:

- Required for **TxDOT TEX-113E**, Approved by **TxDOT**
- Real-time monitoring of compaction testing data
- Precision machined parts and components
- Removes need for lab technician calculations
- Emergency stop switch for added safety
- Simple setup with user friendly software
- Operates soil compactor from a computer/laptop
- Stores test records
- Data recall ensures test protocols and procedures are being followed
- Provided with a data acquisition system (computer/laptop and software)
- NEMA 4 enclosure

### SPECIFICATIONS

Laptop PC & Cables	8lbs, 20" x 16" x 4"
Control Box Assembly & Hardware	14lbs, 16" x 14" x 14"
Sensor Stand & Sensor	20lbs, 48" x 10" x 10"
Motor	110VAC / 60Hz - <2amp (220vac / 50 hz - <1amp, OPTIONAL)