

Core Density Indicator (CDI) – This innovative and revolutionary concept will utilize TransTech System’s electrical impedance spectroscopy technology in a device that will measure the density of HMA cores and gyratory pucks. It is expected that it will be able to be used both in the field as well as in the lab and will be a tremendous advancement in the QC/QA process for road construction. The lab version could replace the Archimedes method by allowing the entire volume of the core or gyratory puck to be measured. The field version will operate in a similar fashion to the PQI™ sensor but will make it possible, through innovative and proprietary means, to keep the entire measurement field within the core so that the air outside the core/puck is not erroneously measured. Each device will greatly improve the efficiency of road construction by making it possible to calibrate our PQI™ to the core or gyratory puck much faster than is currently possible. The field Core Density Indicator (CDI) will allow calibration to a test strip core virtually instantaneously.