

PRECISION WATER SYSTEM - Standalone

Part Number: 42004

DESCRIPTION:

The Precision Water System is a combination of hardware and software that provide the capability to connect, calibrate, and monitor any number of moisture probes used in a variety of materials, up to 1-inch coarse aggregates. The Precision Water System can provide more accurate moisture readings, which can help you batch more efficiently.

The Precision Water System is comprised of a Moisture Interface Controller (MIC) housed inside a NEMA-approved junction box, a Command Alkon 7102 Moisture Probe for each bin, and a Windows® application that manages the probe calibration process by leading the user step-by-step through the bake-out and calibration processes. Once the probes are set up and calibrated, the application is not required for runtime operation.

Bake-outs and calibrations for up to 12 probes can be achieved for a variety of probe-bin-material combinations from one MIC. Multiple MIC's may be utilized to extend the number of probes supported.

Calibrated moisture values are available as a scaled analog signal (0–10 VDC) output for each supported probe.

OPERATION:

Once probes have been configured and calibrated, the Precision Water System operates without operator intervention, continuously converting the signal from each moisture probe into a calibrated analog value. The operator can review the moisture reading of each probe via the Precision Water System application.

The Precision Water System application is not required for runtime operation but can be executed at any time to provide configuration, calibration, and diagnosis of probe operation. The user can also plug in 'test' values to confirm that the analog output calibration is correct.

SYSTEM REQUIREMENTS:

- Windows PC with network support (for configuration and calibration.)
- Moisture probe(s) and cable(s) are ordered and installed separately.

IMPLEMENTATION:

- Install the moisture probe(s) and cable(s).
- Install the junction box containing the MIC.

NOTE: The junction box that houses the MIC is not rated for outside use. If the junction box will be mounted outside, make sure to protect it from the elements.

- Connect the probes and power.
- Start the Precision Water System software, obtain moisture samples and perform bake-outs to refine the calibrated "moisture percentage" output for each probe-bin-material combination. The

process of obtaining samples and bake-outs may take several weeks, depending on the weather, etc. (See "Post-Installation Services" below for more information.)

POST-INSTALLATION SERVICES:

The Precision Water System is shipped with default calibrations for a variety of aggregate material classes. This allows the system to be used immediately upon installation. However, to deliver maximum benefit, the Precision Water System must be calibrated with at least 10 samples including a wide variety of moistures for each material.

During the abbreviated installation process, it is usually not possible to acquire enough samples with the range of moistures needed. To ensure a comprehensive calibration, system proposals will include four (4) hours of post-installation follow-up support. After completion of the installation, a Command Alkon technician will coordinate a series of follow-up telephone calls with your staff to answer any outstanding questions and to assist with the calibration process.

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