ECONOMY MOISTURE METER

INSTALLATION & OPERATION INSTRUCTIONS

Description:

The Concrete Controls Corp. Economy Moisture Meter was specifically designed to provide the concrete producer with a low cost accurate moisture measuring device while at the same time eliminating the most troublesome problems commonly associated with this type of moisture measurement system.

Measuring the moisture of the material as that material leaves the overhead bin or belt eliminates the problem of compaction of material adversely effecting the probe. The addition of a "dead set point" allows the batch operator to "follow" the moisture changes all day. Resetting the pointer gives the batchman a very accurate picture of the size and direction of moisture changes.

Installation:

Unpack the moisture meter and place within sight and reach of the batch operator.

Plug in the wall transformer power supply to any 110VAC wall outlet, and then plug the power supply plug into the meter jack.

Mount the probe under the overhead bin gate of the material you wish to monitor. The probe should be inserted approximately 4" into the material when flowing and be 2-3" below the overhead steel work when material is flowing.

Attach a wire of any 2 wire cable to the probe screw and the other wire of the cable to the overhead steelwork. The other ends of the cable are to be attached to the two screw terminals marked "PROBE" and "GROUND".

Calibration:

With material flowing from the overhead bin or off the feed belt into the weigh batcher, catch a sample and determine its moisture content by cookout, "speedy" or what ever measurement system you now use. During the next batch adjust the CALIBRATION adjustment to achieve that reading. A final cookout is recommended to verify the adjustment.

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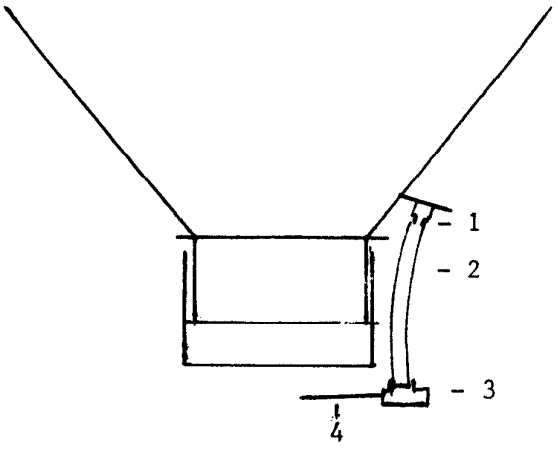
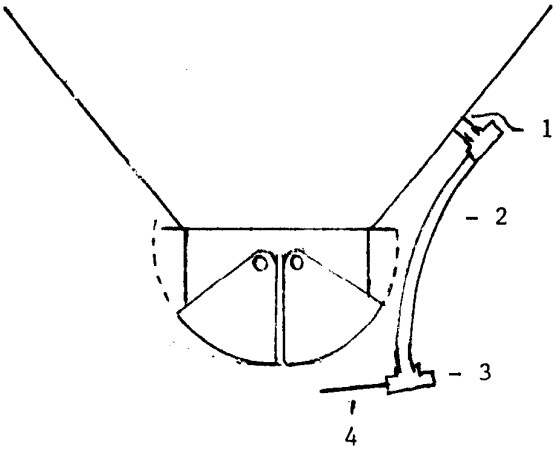
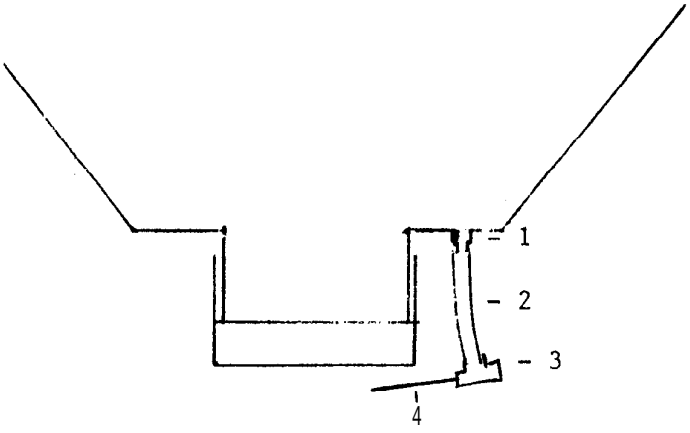
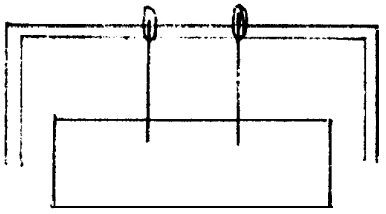
This describes the alternate probe arrangements that provides for adequate insulator distance between probe and ground. It also retains the flexibility that allows frozen lumps of aggregate to pass by the probes without causing damage to the probes. Most materials used in the probe support are available at hardware or plumbing supply stores.

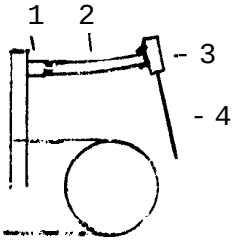
For belt conveyors two probes are necessary and should not be in contact with material until the belt is discharging material.











1. 3/4" black pipe coupling welded to structure for probe support.
   IMPORTANT: Remove plastic pipe before welding black 3/4" coupling

2. 1" plastic pipe to insulate probe

3. 3/4" pipe tee and compression fitting to provide adjustment and tight mounting of probe.

4. Probe is 1/2" stainless steel rod (any rod is OK) and should be penetrating material flow at least 2". More penetration will result in a smoother reading in some cases of non-dense flow of aggregate.

Attach appropriate wire to each probe and adjust for penetration and then tighten compression nut where probe comes out of tee. Attach a ground wire on the structure near the gate.