



Theory of Operation

The Le Sueur MOISTURE MASTER™ controls Model Nos. 1020 series and 1015 series measure the percentage of conductivity of concrete during the mixing process. By precisely measuring the percentage of conductivity, our moisture controls are able to reference incoming materials to determine the incoming percentage of conductivity and add water to achieve the desired final-wet setting. This desired final-wet setting is selected by the customer or other parties by means of a burn-off percentage-of-moisture test procedure or carbide-process moisture-detecting chamber. Once the moisture target has been established, the Le Sueur moisture control unit references this target electronically so that it may be repeated within $\pm \frac{1}{4}$ of 1% of moisture by weight, establishing a finished moisture control target. Because incoming material varies in moisture content, the moisture requirement of each batch will vary. For example, a particular batch may not require as many gallons or quarts of water as a subsequent batch. The Le Sueur moisture control unit will dispense the correct amount of water in each batch to obtain the same percentage of moisture by weight from batch to batch.