Ircon® System Solutions – *Construction*

Asphalt Dryer Drum Measurement

Customer
Asphalt Plant

SIC code
5032

Customer Need
In the production of asphalt gravel and sand are mixed with a binder of hot liquid emulsion to form hot mix asphalt. To make proper asphalt all of the aggregate materials must be completely dry. During the processing, the aggregate is sent into a dryer drum to evaporate off any residual water trapped in the aggregate. The dryer drum is a constantly moving cylinder where the aggregate tumbles about while hot gas is used to drive off any moisture. Since this is a moving process the application is perfect for a non-contact thermometer. Currently the only way to measure the temperature of the process is to look at the hot gasses which are vented off after passing through the dryer drum. Sometimes lab sample of the aggregate are taken after the dryer drum to determine the moisture content of the aggregate; however, this is a cumbersome process. Look at a noncontact thermometer at the exit of the dryer drum where the aggregate exits onto the hot elevator or conveyor system.

Features/Benefits to address

Product

- 8 – 14 micron Javelin
- Air Purge to keep the lens clean
- Non-Contact temp measures the product, not the air

Application

- Continuous monitoring of the drying process.
- Better control of fuel usage

Who to talk to?

1. Plant Foreman
2. Company President (usually asphalt plants are small family businesses)
3. Local DOT officials (some state mandate that this measurement is made on a calibrated thermometer).

What to take?

1. Javelin Demo Case
2. Javelin and Ultimax Sales brochures

Application

Dryer Drum

Names of Customer
Too numerous to name. Many states have an “asphalt association” comprised of producers, contractors, and equipment distributors. Links to their websites are listed at the following:

http://www.aggregatemarket.com/

Also look for other related temperature applications while visiting the plant.

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