

C3000 & C5000 Consistency Probes

How do they work?

The C3000 & C5000 series of consistency probes are mechanical sensors which react to changes in the network strength of a particular furnish. "Network Strength" refers to the interaction of the various fibers which comprise a furnish as they travel through a stockline. When these fibers encounter an obstruction to their flow, they have to shear or tear apart in order to pass. The amount of force necessary to separate the fibers is a direct function of consistency, and is what the C3000 & C5000 sensor measures.

Advantages of the Probe Design

Consistency measurement is independent of variations in production flow rate below 2.0 fps. This eliminates the need for flow compensation at or below this rate. The sensor's reaction to flow rate is linear above 2.0 to 6.0 fps, and can be readily compensated with the TMC6000 transmitter.

The sensor is angled with respect to flow direction. This design gives the sensor the ability to shed trash and buildups. This feature is particularly useful in hostile environments such as digester blow lines or pre-screened hydropulper lines.



C5000 Retractable Consistency Sensor



C3000 Standard Consistency Sensor

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