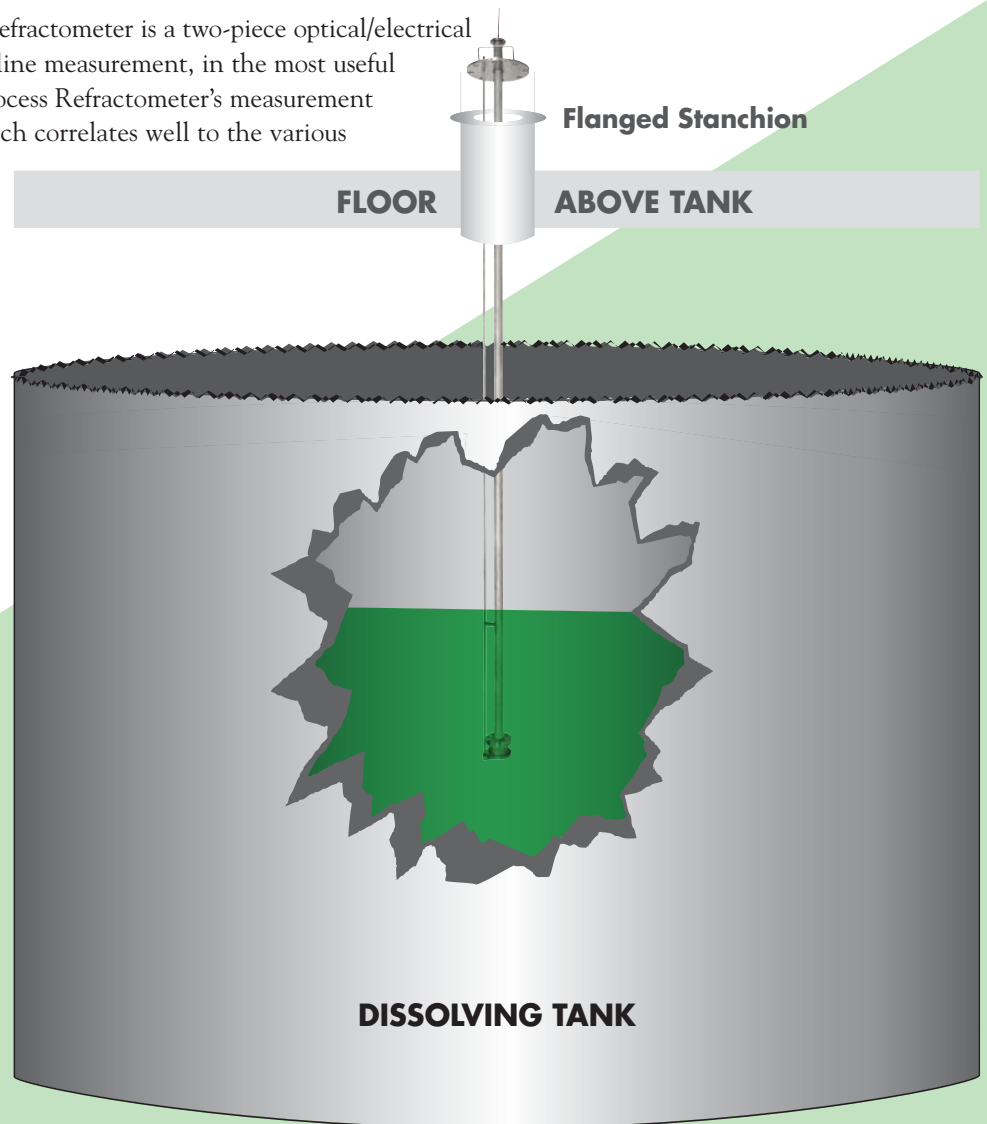


# MEASURE GREEN LIQUOR DENSITY (TTA)

## Directly In The Dissolving Tank

In the late 1970's Liquid Solids Control, Inc. was the first company to offer a complete Automatic Black Liquor Divert System specifically designed to protect the recovery boiler from a Smelt Water Explosion. Since then mills have installed LSC Process Refractometers all throughout the plant site: digesters, evaporators, concentrators, paper machines, and now the "Dissolving Tanks".

LSC's fully computerized In-Line Process Refractometer is a two-piece optical/electrical instrument that provides a continuous on-line measurement, in the most useful term. As many in the industry know, a Process Refractometer's measurement principal is based on Refractive Index, which correlates well to the various different density measurements required in the Pulp & Paper Industry. In the case of the green liquor measurement, several concentration (density) 'terms' are available.



### BENEFITS / FEATURES

Attractive Purchase Price

Installation is Simple

No Isolation Valve is used.

No High Pressure Pump is used.

Probe can easily, and quickly be removed, and re-installed at any time.

Maintenance is very Simple, and Minimal

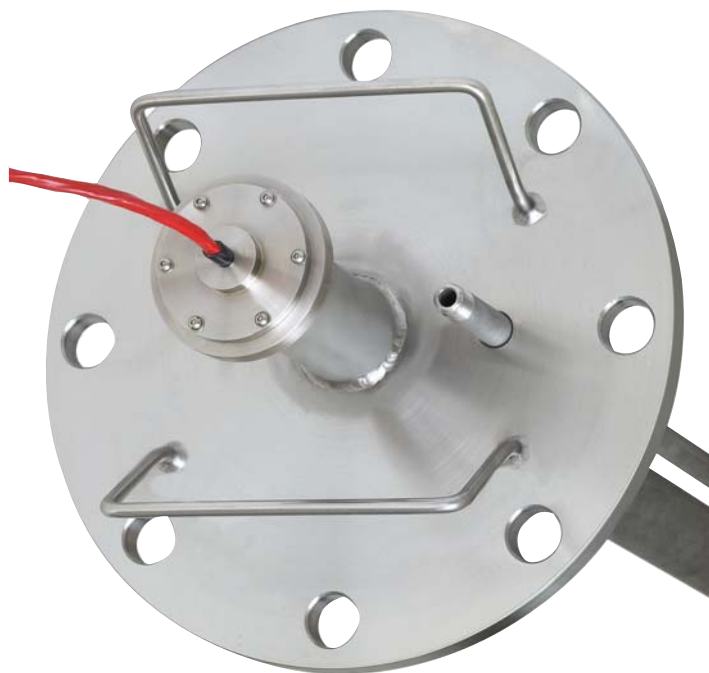
### Installation is Simple and Convenient:

The measurement is taken directly in the Dissolving Tank. A typical installation would use a Flanged Stanchion (Flanged Pipe Connection) through the floor directly above the Dissolving Tank to secure the LSC Green Liquor Probe and submerge the Sensing Head Prism into the Green Liquor to a depth that achieves an accurate representative measurement. Because of this installation technique, and being atmospheric pressure, this installation allows for the safe removal of the Green Liquor Probe at any time without the need of any Isolation Valve.

# LIQUID SOLIDS CONTROL

# TTA . . .

## LSC EXTRA LONG PROBE (XLP) SENSING HEAD



The unique design of the LSC XLP (Extra Long Probe) Sensing Head provides a safe, simple, and cost effective measurement of Green Liquor Density directly in the Dissolving Tank. The XLP's design is fully customizable to accommodate various lengths (8 - 10 Feet / 2.5 - 3 Meters is typical) and virtually any mounting flange or bolt pattern 6 inch (150 mm ID) or greater to accommodate existing mounting opportunities.

Our superior designed wash nozzle utilizes 140 - 180 PSI (9 - 12 Bar) Steam to keep the sensing prism free of scale (coating) without the need for high-pressure pumps, and their associated high cost and frequent maintenance.



# Total Titratable Alkali



or



There are two different "Electronic Transmitters" (Model E-NET or Model 614) offered for this application. Please visit our website listed below to learn more about the features of each system. You will find product literature under the heading of "Documentation".

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