



**THE ELECTRON  
MACHINE  
CORPORATION**

# DSA E-Scan

## BLACK LIQUOR ANALYZER



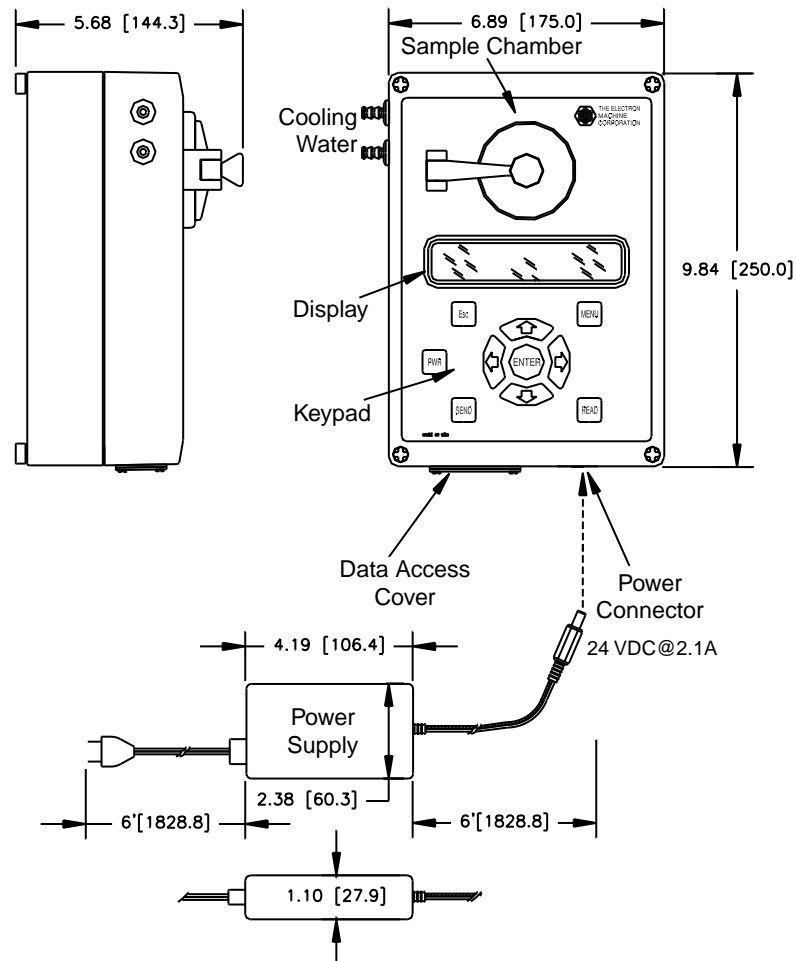
The DSA E-Scan is an automatic, bench-top critical angle refractometer with a digital readout and heated sample chamber. It measures the critical angle of refraction of sample fluids which are directly correlated to various measurements including percent dissolved solids. The instrument is equipped with a menu-driven user interface and is factory calibrated and temperature compensated. The measurement is not affected by opaque liquids or suspended solids making it ideal for black liquor.

Utilizing a Digital Signal Processor and fast Analog-to-Digital converters, the digital measurement of sample liquids is both fast and accurate. The small size and rugged design of the DSA allows for operation in the field and in areas where space is limited. A sapphire prism and stainless steel sample chamber combined with a wide measurement range allows for reliable readings of all black liquor concentration levels.



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## Specifications

Power Requirement: 100-240Vac, 60/50Hz, 1.6A max

Accuracy:  $\pm 0.1\%$  Black Liquor Dissolved Solids

Range: 0 - 85% Black Liquor Dissolved Solids

Outputs: 0-5V Measurement & Temperature, 9600 Baud Serial x2, Parallel Interface

Ambient Temperature Operating Range: 0°C to 50°C

Sample Temperature Range: 10°C to 80°C

Sample Capacity: approx. 1.0cc

Wetted Materials: Synthetic Sapphire and 316 Stainless Steel

Weight: approx. 5 lbs.