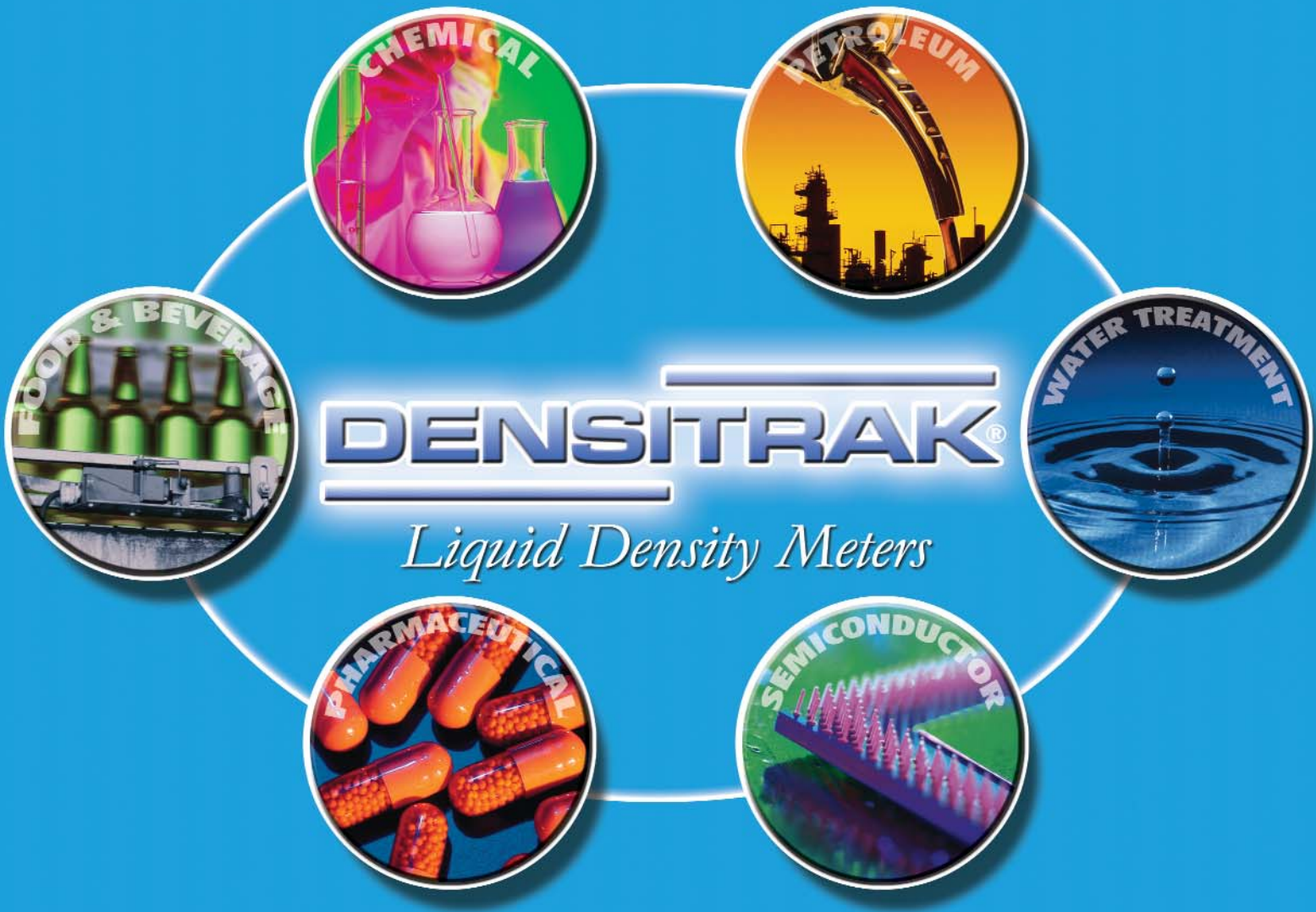




AN ISO 9001 CERTIFIED COMPANY



*Represented by:*

# DENSITRAK<sup>®</sup> liquid density meters manufactured by Calibron Systems, Inc. outperforms the competition!

*As America's leading manufacturer of liquid density meters since 1994, we take pride in our superior accuracy, proven reliability and unsurpassed total performance.*

*The accurate and continuous measuring of liquid density in the beverage, chemical, food, petroleum, pharmaceutical, semiconductor and water treatment industries is of the utmost importance. For a measuring instrument to properly operate in these sometimes extreme environments an instrument of superior quality is required.*

*Available in both "U" tube and Straight-Through designs, the DENSITRAK<sup>®</sup> liquid density meters utilize the spring mass principal for measuring liquid density. The measurement tube is energized causing it to vibrate and maintain it's natural resonant frequency. A change in the vibrating mass is created by a change in the fluid density.*

*The SPUD (Signal Processing Unit for Density) manufactured by Calibron Systems, Inc. measures temperature, pressure and frequency change to calculate the fluid density.*

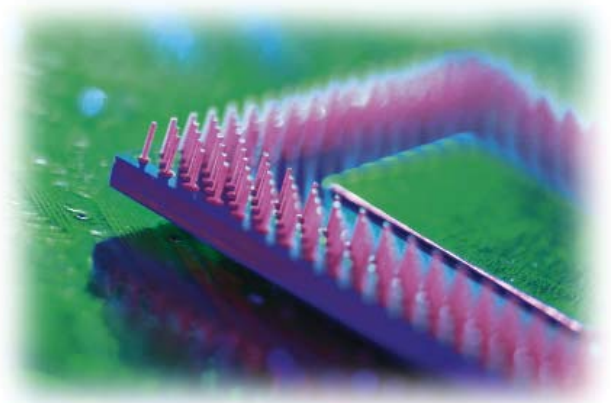


## *Food & Beverage*

By using density meters made with sanitary tubes, food & beverage manufacturers accurately control the consistency of their products through continuous density and temperature measurement. In the process, evaporation is easily monitored with density measurement. DENSITRAK<sup>®</sup> allows the Brix or % of sugar in solution to be accurately maintained.

## *Semiconductor*

Maintaining the exacting concentration of wafer polishing slurries is another example of DENSITRAK<sup>®</sup> usage. The right mix of grit and fluid is extremely important in controlling the amount of wafer material being removed. Flatness, concentricity and finish are a direct result of the density meter controlling the slurry. Acids used in wafer processing and cleaning must be maintained at the correct dilution to properly perform, this is accomplished by using a DENSITRAK<sup>®</sup> liquid density meter.





## *Pharmaceutical*

Among the many uses for the DENSITRAK® liquid density meter in the production of medicines is the accurate and continuous monitoring of the acid solutions for quality control. Concentration determination and temperature monitoring are everyday requirements in pharmaceutical process control. The superior quality of the DENSITRAK® liquid density meter equipped with a sanitary tube repeatedly performs these functions at a high benefit to cost ratio.

## *Water Treatment*

Municipal water departments are constantly monitoring the build up of sludge at their waste water treatment facilities. The DENSITRAK® liquid density meters measure the change of the sludge density during the purification process. Manufacturers who legally use sewerage for disposal of process water use density meters to monitor the water for excessive amounts of pollutants. A DENSITRAK® equipped with a Signal Processing Unit for Density (SPUD) signals the operator when a preset maximum density amount is exceeded.



## *Chemical*

The chemical industry has an ever increasing need for density and temperature measurement. One manufacturer has to maintain the proper concentration of acid in the production of carbon filters; another must guarantee the accurate proportions of pigment to catalyst for the manufacture of synthetic rubber. These and numerous other applications, in all types of manufacturing environments are where the DENSITRAK® liquid density meters continue to provide superior performance day after day and year after year.

## *Petroleum*

DENSITRAK® liquid density meters are used extensively in petroleum pipelines for custody transfer and to determine the interface between one product and another. Crude oil comes in varying qualities and is sold by volume and API gravity. To ensure that the customer receives what they are paying for, the density meter monitors the changing liquid density. Some hydrocarbon products like LPG's are stored in salt caverns. Preventing overfilling of the caverns is extremely important. Monitoring of the brine by a DENSITRAK® detects when hydrocarbons are in the brine and the filling must be stopped.



# DENSITRAK

Model D625



## Liquid Density Meters

Manufactured in both "U" tube and Straight-Through designs for a broad range of applications including density & temperature monitoring, interface detection, quality control, product blending and process control. Superior quality, high resolution, no moving parts and a built-in RTD are just some of the many features that contribute to the high-benefit to cost ratio of every DENSITRAK® liquid density meter.

With available operating temperatures of 32°F to 240°F (0°C to 110°C), meter accuracy of 0.0001 g/cm<sup>3</sup> and repeatability of better than 0.01%, DENSITRAK® is the only liquid density meter for your process application. Solidly constructed of stainless steel, Hastelloy C-276 or titanium the DENSITRAK® is built to operate accurately and continuously, year after year in the most extreme environments. Tell us what your application is and we will build one for you.



Model IS625



Model SVT

## SPUD (Signal Processing Units for Density)

The SPUD 604 is a remote mounted density processor that calculates liquid density, specific gravity at flowing temperature or at 60°F, % concentration, API gravity or BRIX, utilizing the frequency output from the DENSITRAK®. The front panel consists of a two line alphanumeric backlit LCD and two push buttons allowing the user to display a variety of functions. The communications software is capable of data logging and real time monitoring. A SPUD 604 for direct mounting to the DENSITRAK® is now available in an explosion-proof configuration.

SPUD 604



The SPUD 620 is a density processor with a small footprint that can be mounted directly on the DENSITRAK®. The 620 provides a frequency output signal or linearized 4-20 mA output over a specific density range. Another feature of the SPUD 620 is a user selectable smart filtering feature which provides a reliable density output in the real world environment of mechanical and hydraulic noise. An LCD display is optional.



SPUD 620

Technical literature and operation/installation manuals are available for all the above.



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