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The World's First Multiple Wavelength Refractometer

Biggleswade, Beds — Analytik Ltd introduce the DSR-L from Schmidt + Haensch as the world's first automatic refractometer to measure refractive index at multiple wavelengths. The use of discrete LEDs makes it possible to implement any combination of customer-specified wavelengths, allowing quasi-spectral measurements in almost real time.

The innovative DSR-L is extremely valuable in both R&D as well as quality control. It is ideal for measuring the refractive index dispersion of proteins, viscous materials, lenses, glass, thin film, and polymers and can be used to test product purity, characterise optical materials, identify counterfeits, and analyse quantities of dissolved solids like sugar, glycol and fats.

By precisely measuring samples at seven separate wavelengths (400nm, 435.8nm, 486.1nm, 546.1nm, 589.3nm, 656.3nm, & 706.9nm), the DSR-L gives unique fingerprint-like data. There are many solutions that are chemically different but display comparable refractive index values at the traditional 589.3nm wavelength, however because the DSR-L can measure RI at multiple wavelengths, key differences can be obtained from otherwise similar samples.

The electronic Peltier device controls temperatures from +18 to +30°C and eliminates the need for an external water bath or thermostat. With accuracy of $\pm 0.01^\circ\text{C}$, a temperature is easily set and the automatic refractometer quickly heats or cools to the target temperature. The DSR-L also features a long-lasting LED light source (100,000 hours), linear high-resolution CCD sensor, menu-driven backlit LCD displays, 4 user profiles, password protection, printer and data ports, and optional USB ports.

The included software package and RS-232C cable make it easy to connect the DSR-L to computers for collection of measurement data or for remote operation with full command of all functions. As new software versions are released, the instrument can also receive flash updates.

The DSR-L is suitable for ASTM D 1747 Standard Test Method for Refractive Index of Viscous Materials and ASTM D 1218 Standard Test Method for Refractive Index and Refractive Dispersion of Hydrocarbon Liquids.

German based Schmidt +Haensch have been manufacturing precision opto-electronic instruments since 1864. Analytik Ltd are exclusive UK distributors of their automatic refractometers, polarimeters and colorimeters.



Attachment: DSR-L Multi-Wavelength Refractometer

About Analytik:

Analytik Ltd are specialised consultants and suppliers of unique, high quality analytical instrumentation throughout UK and Ireland. Innovative solutions from leading global instrumentation manufacturers, coupled with unparalleled customer support have enabled them to forge a reputation for excellence since their formation in 2003.

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