KLD LABS INCORPORATED

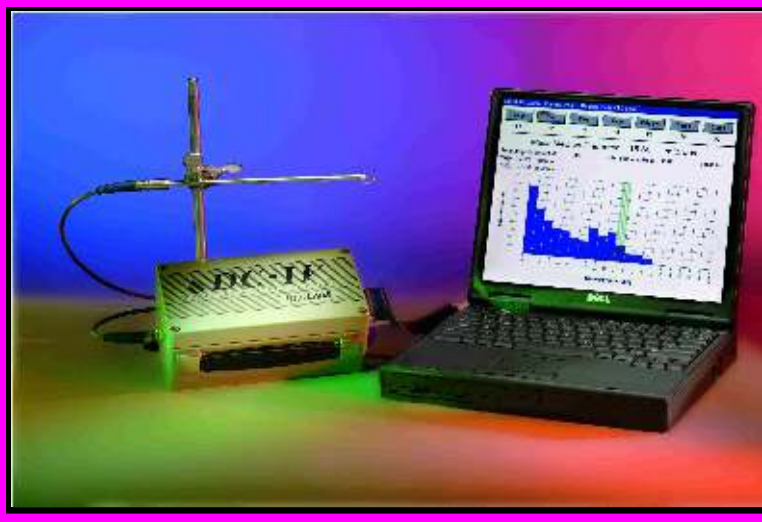
Droplet Measurement Technology

DC-IV IS THE MEASURE OF ACCURACY IN DROPLET MEASUREMENT

KLD Laboratories developed the DC-IV to measure droplet size distribution and perform various volumetric computations including VmD, SMD and MMD for water and oil-based liquids. Based upon the hot-wire concept utilized in KLD's successful DC-II, DC-III and AIMS units, the DC-IV incorporates the best features of the previous units as well as providing a USB interface. This interface allows users to view, store and print droplet distributions and volumetric computations from a notebook or desktop IBM-compatible computer. All data is stored in ASCII file format for a permanent record and to allow post analysis with spreadsheet packages such as Excel or user-defined programs.

APPLICATIONS INCLUDE:

- Insecticide Sprayer Calibration
  Spray systems may be adjusted for maximum effectiveness and coverage
- Air Pollution Control of Power Plant Emissions
  The effectiveness of wet scrubbers and mist eliminator systems can be assessed
- Operation of Power Plant Cooling Towers
  Evaluation of source drift emissions for towers
- Dispersions from Aerosol Spray Cans
  Droplet size can be assessed so that spray will conform with safe-inhalation regulations
- Spray Nozzle Design
  Spray nozzle research, design and quality control can be easily optimized and validated



BENEFITS:

- Portable and User-Friendly
- Diagnostic Software Included
- Easily Connects to Notebook or Desktop PCs
- Displays Droplet Distribution from 1 to 600 microns for water and 1 to 150 microns for oils
- Provides Volumetric Computation of VMD, SMD and MMD
- Generates ASCII data files for permanent record and post analysis

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