

Model 1130 & 1135

DataCom Logging Upgrade (Option 100)

Rev 1.01 October, 2007



Model 1135 Particulate Module



Model 1130 Denuder Module



Model 1130A Pump Module

The **Model 1130** and **Model 1135 DataCom Logging** option allows Tekran Mercury Speciation systems to read, display and log the controller temperatures from the **Model 1135 Particulate Module** and the **Model 1130 Denuder Module** as well as the pump flow of the **Model 1130 Pump Module**. This logging provides positive indication of proper system operation and early warning of potential trouble.

How Does it Work?

The logging option takes advantage of the data communications capability of the temperature controllers. These controllers are polled by a new PC based application using the RS-485 communications protocol. The new **Tek-1130** application replaces the existing **TekCap** software, allowing both temperature logs and output from the Model 2537 to be captured simultaneously. Results are displayed on the screen and logged to disk using the Model 2537 analyzer's time stamp.

What's Included

- All required module upgrades
- Cabling
- Dual port USB to serial converter. One RS-232 and one RS-485 COM port provided
- New **Tek-1130** Speciation Logging application. (Windows based)
- **Optional:** Notebook or Desktop PC running Windows-XP, or later. (Order **Option 110**) You may also provide a suitable notebook or desktop PC yourself.

Ordering Information for New Systems

On new **Model 1130** systems, the data logging option may be ordered by specifying **Option 100**. The configuration includes a USB to dual serial port interface and all cables, but does *not* include the required notebook or desktop computer. **Option 110** adds a notebook controller capable of running the logging software.

Upgrading Existing Model 1130 Systems

Older systems can be factory refitted to include the data logging capability. Depending on when your various system components were built, the **DataCom Upgrade** may require some or all of the following modules to be returned to the factory. Existing customers should contact Tekran for a copy of **Technical Bulletin 315** which contains further details.

- **Model 1135 Particulate Module.**
 - Newer modules require no modification. Older units may require replacement of all PID controllers and rewiring of module.
- **Model 1130 Denuder Module.**
 - Replace main PCB. Rewire PID controllers. Replace older PID controllers if required.
- **Model 1130 Pump Module.**
 - Replace PCB. Add flow monitor. Add wiring and rear panel data com connector.
- **Model 1130A Pump Module.**
 - (The new **Model 1130A Pump Module** combines the functionality of the previous version pump module and the system controller in one unit.) Add flow monitor.