

Product	Streamline Pro™ MultiCal™ System
Model	Model LX (0.5 – 7 lpm flow range) with Control Unit Firmware Version 3.xx
Chinook Part	SLP MODEL LX Kit
Description	<ul style="list-style-type: none"> • The Streamline Pro™ MultiCal™ System provides an integrated approach for assuring the quality of data generated by ambient air monitors and samplers. It is a battery-operated, handheld device with internal data storage that displays audit/calibration data directly on its display screen. The unit provides a direct readout of NIST-traceable flow rate, temperature and barometric (ambient) pressure data. A Remote (external) Temperature Probe (RT Probe) allows for NIST-traceable temperature measurements. • The Streamline Pro™ is the first portable integrated system that allows use of temperature measurements from the rugged RT Probe in the flow calculation for efficiency and convenience of operators. • The Streamline Pro™ is designed and calibrated for full interchangeability of all components. Each component's calibration constants and certification data are retained in the on-board memory of the component. The calibration data is automatically uploaded to the Control Unit (CU), where it is displayable and recordable for QA tracking. Any Measurement Unit (MU) can be used with any CU and any Remote Temperature (RT) Probe can also be used with any CU. This adds user flexibility because another MU calibrated over a different flow range can be added to the kit in the future as additional needs arise. • When the Streamline Pro™ is calibrated at laboratory conditions, the patented orifice element in the MU provides a calibration relationship based on the specific geometry it had at those laboratory conditions. Because of the durable, patented materials of which it is constructed, its geometry, performance and calibration do not change with changes in air temperature, humidity or pressure. Other flow rate measurement devices can expand, contract or distort when used at conditions other than those at which they were calibrated, providing unreliable flow rate measurements away from the lab. This situation is at its worst when the flow rate measurement device relies on polymeric, metallic, or combined materials, which have high and/or variable thermal expansion properties. • The Streamline Pro™ is a durable and accurate orifice-type Flow Transfer Standard with no moving parts or pistons to introduce shock waves or pulses in the air stream. It can be operated in any position because it doesn't utilize soap bubbles or other gravity or position-dependent components. There is no vacuum tubing to twist or tangle between the MU and CU. • The Streamline Pro™ is very portable and intuitively easy to use. The entire kit fits in the padded 14" x 11" x 4" carrying case and weighs only 4 pounds. The menus are easy to maneuver through and its features are designed for quick and easy access by users, even while wearing gloves! • The Model LX is designed for low-flow measurements over the 0.5 – 7 lpm flow range. The Model LX MU uses the same patented flow orifice element as the Low-Flow Streamline™ FTS that is calibrated for the 0.5-6 lpm flow range.

Features	<ul style="list-style-type: none"> • Simultaneous NIST-traceable measurements of flow rate, temperature and pressure with a continuous display of values. • User-selectable units of flow rate, temperature and pressure. • Interchangeability—CUs, MUs and RT Probes can be freely exchanged between kits while maintaining calibrations and NIST traceability. • User-selectable option to use the RT Probe measurement in the calculation of flow rates can extend the equipment Operating Range and decrease the time spent taking each measurement. • MU and RT Probe calibration data is automatically uploaded to CU and is displayable and recordable for Quality Assurance tracking. • Internal logging of up to 45 data sets. • Battery powered or optional AC adapter use. • Fits directly on 1.25 inch sample tubes or use the optional Universal Flow Adapter.
Flow Range	0.5 – 7 Liters / Minute
Operating Range	
Temperature	-30 °C to +55 °C; it can be extended with the USE_RT firmware feature.
Pressure	0.6 to 1.1 Atmospheres
Nominal Press. Drop at Orifice	1" w.c. @1.7 lpm, 17" w.c. @7 lpm, 22°C, 1 atmosphere
Flow Meas. Uncertainty	
At Room Temperature (22°C)	±0.6 % Full Scale
Over Full Operating Range	±1.2 % Full Scale
Temp. Meas. Uncertainty	±0.2 % Full Scale
Press. Meas. Uncertainty	±0.4 % Full Scale
Components	<ul style="list-style-type: none"> • Control Unit (CU) • Measurement Unit (MU) • MU-CU Communication Cable • Remote Temperature Probe (RT Probe) • Solar Radiation Shield • Padded Carrying Case • Batteries (2 – AA 1.5V) • Certificate of Calibration • Operations Manual
Optional Components	<ul style="list-style-type: none"> • Universal Flow Adapter w/ UniClamp and tubing • LogComm™ Software w/ CU-PC Communication Cable • 90 - 246 VAC Input - 5VDC Output Power Adapter

For additional information, contact Chinook Engineering. Email Chinook@imlinc.com or telephone (307) 674-7506

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