

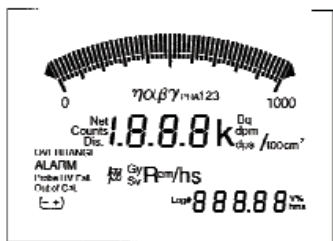
The Model E-600 multipurpose survey meter is the latest, most sophisticated, and user friendly instrument in the family of Thermo Electron Corporation's E-Series of portable instruments. Traditional feel and advanced control functions offer users a portable instrument capable of performing many radiation monitoring functions.

E-600

Multipurpose Survey Meter



- Accepts conventional and Smart probes
- Background subtraction
- Data logging
- Built-in Pulse Height analyzer



Display showing all segments



The E-600 represents a new generation of portable survey meters that provides enhanced capabilities for users.

Foremost among the advanced capabilities of the E-600 is the compatibility of the instrument with a multitude of detector probe types. Probes include various newer "smart probes" and conventional probes in widespread use. The smart probes provide interchangeability for performing various types of radiation measurements, the probe recognizes the instrument, and vice versa.

The E-600 can memorize up to three configurations for any given probe, permitting a single probe to be set up and operated in different ways. For alpha/beta monitoring applications this allows switching between the alpha, beta and alpha + beta monitoring channels. Switching between each channel automatically adjusts the thresholds, alarm settings, response times and the preferred audible click signature for differentiation between the alpha and beta counts. This multi-channel capability is also useful for performing Pulse Height Analysis (PHA) where three separate views can be programmed with the user readily switching from one to another.

The high-contrast, custom display allows the user an easy view of the full range of the instruments capabilities, blending traditional analog information with alphanumeric digital data. The display is backlit for use in poorly lighted areas, and is operational through a wide temperature range. The simulated linear analog meter movement provides a familiar feel to users.

System Specifications

The E-600 has five operating modes plus a check mode accessible to the operator. The operating modes are Ratemeter, Integrate, Scaler, Peak Trap and Background Accumulation. The custom LCD display automatically adjusts for each operating mode to notify the user and to allow rapid switching. The E-600 uniquely performs active background subtraction when selected by the user.

Routine surveys are best served with the built-in data logging capability that can store up to 500 data points. Each data point includes the location, date, time, detector channel, operating mode, displayed value, unit of measurement, instrument and probe serial numbers and the instrument status. Location data may be read directly by the E-600's serial port via a laser scanner, alphanumeric keypad, Global Positioning System, or other smart

RS-232 devices capable of outputting the data in an ASCII format.

The E-600 offers an optional Windows™ based PC program that is necessary to calibrate or configure the instrument with Thermo Electron Corporation's Smart probes. Connection to the PC is through the E-600's serial port that provides for the exchange of data, as well as setting up the instrument and its probes.

A real time clock is incorporated into the design to provide tighter controls and support precise data gathering. This is especially useful for data logging applications where each logged data point is time stamped.

Another powerful application is time-stamping the calibration of the instrument and any of the Smart probes. A calibration date and time are carried with the probe calibration data, as well as a calibration due date. If

administratively enabled, any probe utilized past its due date will automatically take itself out of service and inform the user that the calibration is no longer valid. The same control may also be invoked for each E-600 instrument. The E-600 case is also designed to withstand rigorous handling in all environments, indoors and outdoors.

Specifications

Dimensions:	34 x 16.5 x 23 mm (8.5" x 4.12" x 5.75") (including handle)
Weight:	1.47 kg (3.25 lbs) (including batteries)
Color:	Beige/ Brown
Batteries:	3 Alkaline "C" cells, life approximately 100 hours
Operating Humidity:	Up to 95% non-condensing
Operating Temperature Range:	40 °C to 80 °C (-40 °F to 176 °F)
Storage Temperature Range:	-50 °C to 185 °C (-58 °F to 365 °F)
Display:	High contrast LCD, 7.5 cm wide by 5 cm high (3" x 2") Red backlight.
Response Times:	Slow, Medium and Fast. Each time can set between 1 and 255 seconds
Audible Alarm:	85 dB at 30 cm (11.81")
Alarm Level Settings:	Up to three alarms per detector probe adjustable over entire range of probe. Alarm settings are available for both rate and integrate modes.
Dead Time Correction:	0 to 999 microseconds
Probe Connector:	Smart, Proprietary Thermo Design
High Voltage Range:	500 to 2,500 VDC
Operating Modes:	Rate meter, Scaler, Integration, PeakTrap and Background
Accumulation Controls:	Instrument off, check mode, five operating modes, speaker on/off, gross/net counts display, up/down range scale, log data, multi-function soft key, display back-light and channel select

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