

The ASP-2 is a versatile and user-friendly general-purpose portable survey meter, using the best conventional analog and modern digital technologies.

ASP-2

General Purpose Survey Meter



- Microprocessor- based survey meter
- Analog/digital display
- Computer setup and calibration
- Selectable units of measurement
- Broad HV Range (300 - 2,500 V)
- Dead-time correction
- Built-in speaker and alarm sounder
- Optional scaler & integrate modes
- Pulse Height Analysis option



This instrument is available in two models, the ASP-2 and the ASP-2e. The ASP-2e, in addition to the normal Check and Rate meter operating modes, includes modes for Integration and Scaler, as well as a second channel for Pulse-Height Analysis (PHA).

The wide (300 - 2,500 V) high voltage supply range permits operation with GM, scintillation and proportional detectors, giving a high degree of flexibility for a wide variety of applications. The RS-232 serial port permits easy interchangeability of probes, and therefore applications, and facilitates calibration of the instrument with the probe.

The unique display is comprised of a high-contrast analog meter and large character-based LCD in one highly integrated and seamless configuration. The analog meter delivers trending information while the LCD presents precise measurement values, response time positions, warnings and additional operational information.

Two display modes are available to suit the user. The Digital Display mode presents a precise value of the count rate or accumulated counts.

In this mode an analog meter augments the digital display by giving useful trending information. The second display mode is the Range Multiplier type of indication, where users read the value from the analog scale, then multiply by the scale factor presented on the LCD. In this mode, users familiar with traditional analog instruments maintain their conventional monitoring techniques and can also benefit from some of the features of a digital instrument.

The ASP-2 provides a Check Mode to give users information on several of the operating parameters being used. The ASP-2 and ASP-2e models inform users of the battery level, the probe serial number and model number with which it was calibrated, the high voltage setting, the rate-meter alarm set point, the firmware version, and a display check where all characters of the LCD are activated.

In addition, the ASP-2e presents the integrate alarm set point, scaler count time, and corresponding settings for the PHA channel if selected. The values for alarms and scaler count times may be edited by the user, unless this feature is disabled via the optional PC program.

System Specifications

Detector connector:	MHV.
Communications connector:	Viking (Order PC cable CA-104-60)
Meter (lighted):	Upper scale: 0 to 10 with total 50 divisions (range determined by detector used).
Scale lengths:	3" (7.6 cm).
LCD display:	Custom, high-contrast design measuring 3" wide x 0.75" high (7.6 x 1.9 cm). Displays units of measurement, measurement values, alarms, over range, HV fail, fast/slow response time, low battery indication, scaler time, speaker on and PHA on. Also, messages are presented to indicate various settings while viewing in the Check mode.
Units of Measurement:	
Rate-meter:	Bq, CPS, CPM, DPS, DPM, Sv/h, Gy/h, R/h, Rem/h
Integrated:	Gy, Sv, R, Rem, counts, and disintegrations.
Multipliers:	m(milli), μ (micro), n(nano), or k(kilo).
High voltage output:	From 300 to 2,500 V.
Input sensitivity:	Adjustable from 0.75 to 60 mV.
Dead-time compensation:	Up to 255 μ s.
Battery:	Three C-cell size. Battery life is approximately 100 to 150 hours, depending on the high voltage power required, the speaker usage and the light usage. Low battery icon is displayed whenever there is less than 8 hours of battery remaining.

External Controls

Operating modes:	Rotary switch for selection of Off, Check, Rate-meter. ASP-2e additionally includes Integrate and Scaler.
Speaker:	On/Off push button.
Range selection:	Upscale, Downscale push button.
Meter backlight:	On/Off pushbutton.
PHA:	On/Off pushbutton (ASP-2e Model only).
Response time:	Fast/Slow pushbutton, each response time is programmable from 0 to 255 seconds.
Alarm acknowledge:	Asterisk pushbutton

Temperature range:	-4 °F to +122 °F (-20 °C to +50 °C).
Storage temperature:	-22 °F to +155 °F (-30 °C to +70 °C).

Operating humidity:	0 to 95% non-condensing.
Dimensions:	4.3" wide x 8.7" long x 5.2" high (109 mm x 221 mm x 132 mm).
Weight:	2.4 lbs. (1.09 kg).

Thermo Fisher Scientific offers an optional Windows™ software to configure and calibrate either of the two ASP-2 models. This easy-to-use program operates on any IBM compatible machine running Windows 95 or higher operating systems. This option requires cable CA-104-60 to link the instrument to the PC.

Three password levels allow larger institutions to control access to critical calibration factors, while allowing users to reconfigure the instrument to suit their preferences or to suit a given task. Configuration and calibration are categorized into three basic levels to accommodate the instrument, the probe and the operating channels.

The PC software makes calibration easy, by automatically determining the proper high voltage and calibration constant. A number of utility functions also check the battery status, program version or download default values.

Other Features

- Light weight
- Good balance
- Easy battery replacement
- Selectable auto and manual range changing
- Alarm capability

Accessories

A full range of GM, scintillation, and proportional probes, detector cables, check sources and probe holders are offered for use with ASP2/2e. The ASP2/2e is also offered with the SPA-8 as a μ R Meter and with the NRD as a Neutron Rem Meter. Separate data sheets describing these products are available.

Options

ASP-2e:	Enhanced ASP-2 with scaler and integrate operating modes plus a Pulse-Height Analysis channel.
CA-104-60:	PC Serial Communications Cable.
CXMH1:	90 degree MHV Adapter.
ASP2 OPT1:	PC Calibration / Configuration Software, Requires Windows 95 or higher.

©2007 Thermo Fisher Scientific Inc. All rights reserved. Kapton is a registered trademark of of E.I. du Pont de Nemours and Company. All other trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Results may vary under different operating conditions. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representatives for details. Literature Code LITASP-2 0407

Worldwide
Frauenauracher Strasse 96 +49 (0) 9131 909-0
D 91056 Erlangen, Germany +49 (0) 9131 909-205 fax

United Kingdom
Bath Road, Beenham, +44 (0) 118 971 2121
Reading RG7 5PR United Kingdom +44 (0) 118 971 2835 fax

United States
27 Forge Parkway +1 (508) 520-2815
Franklin, MA 02038 USA +1 (800) 274-4212 toll-free
+1 (508) 428-3535 fax

www.thermo.com/rmp

Thermo
SCIENTIFIC