

# Model 3030E

## Alpha/Beta Sample Counter



Ludlum Measurements, Inc.

### Specifications

Part Number: 48-3448

**INDICATED USE:** simultaneous alpha beta sample counting

**SCALERS:** 2 each six-digit LCD displays with back lights providing a range of 0–999999 counts

**SCALER LINEARITY:** reading within 2% of true value

**COUNT TIMER SETTINGS:** 0.1, 0.5, 1, 2, 5, 10, and 60 minutes. PC position facilitates other user-defined values set by software program.

### BACKGROUND:

alpha: 3 cpm or less

beta gamma: typically 50 cpm or less (10  $\mu$ R/hr field)

**AUDIO:** built in unimorph-type speaker with volume control to provide a dual tone click-per-event audio

### STATUS INDICATORS:

backlit indicators for daily QC check needed (QC)

overload condition (OL)

counting in cpm or dpm mode (CPM/DPM)

count has exceeded alpha alarm set point ( $\alpha$ AL)

count has exceeded beta alarm set point ( $\beta$ AL)

### CONNECTOR:

 series "C"

### THRESHOLDS:

alpha: -120 mV

beta: -4 mV

beta window: 50 mV

**SCALERS:** two each six-digit LCD displays with backlights providing a range of 0–999999 counts

**SCALER LINEARITY:** reading within 2% of true value

**COUNT TIMER SETTINGS:** 0.1, 0.5, 1, 2, 5, 10, 60 minutes or the user-defined PC setting defined during setup using the RS-232 port. User-defined count time may be set from 0.1 to 546.1 minutes.

**HIGH VOLTAGE:** adjustable from 200–2500 Vdc

**DATA OUTPUT:** 9-pin RS-232 port for connection to PC for data download and adjustment of setup parameters. A one meter RS-232 to USB adapter cable is included. PC interface software is available for download on our website.

**POWER:** 250 watts at 95–250 Vac, 50–60 Hz single phase; internal 12 Vdc, 1.2A/hr, trickle- charged battery will provides power up to eight hours

**CONSTRUCTION:** aluminum housing with gray powder coat paint and sub-surface printed front panel

**TEMPERATURE RANGE:** -20 to 50 °C (-4 to 122 °F)

**SIZE:** 24.1 x 13.5 x 25.4 (9.5 x 5.3 x 10.0 in.) (H x W x D)

**WEIGHT:** approximately 2.7 kg (6 lb)

Model 3030E utilizes an external, side-mounted sample counter. Common external counters are Model 43-10 (alpha only) or Model 43-10-1 (alpha beta).

**SOFTWARE:** computer based to perform setup and calibration routines including: background subtract, crosstalk correction, cpm/dpm modes, daily QC check parameters, alarm levels, and automatic plateaus. All parameters are stored in the instrument in non-volatile memory. The supplied software is capable of logging and storing the following: Sample Number, Sample Date, Sample Time, Alpha Count, Beta Count, Sample Type, Comments.



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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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