LUDLUM MEASUREMENTS, INC.

Model 4600 Series
Multi-Detector Benchtop Counter

Features

- 1 to 12 Channels
- PC Program Control & Logging
- Wide Range High Voltage
- Single Channel Analysis
- User-Adjustable Parameters

Introduction

The Model 4600 Series are SCAs (single channel analyzers), ranging from 1 to 12 channels, with PC control of all necessary operating parameters. Each connected detector has independent high voltage, threshold or sensitivity, and window settings. Parameters are loaded from a built-in flash memory during the power-up sequence. These parameters include high voltage, upper-level discriminator, lower-level discriminator, count time, count time range, output time, recycle mode, or slave mode.

Model 4600 Series instruments are supplied with IBM-compatible application software that enables setting up each channel, running counts, and storing the data.

Model	Description	Part Number
4601	1 Channel SCA	48-3284
4602	2 Channel SCA	48-3631
4603	3 Channel SCA	48-3241
4605	5 Channel SCA	48-3414
4606	6 Channel SCA	48-3242
4607	7 Channel SCA	48-3412
4608	8 Channel SCA	48-3723
4609	9 Channel SCA	48-3413
4610	10 Channel SCA	48-3697
4612	12 Channel SCA	48-3237

Specifications

SUGGESTED DETECTORS: GM, proportional, scintillation
CONNECTOR: series "BNC" (others available)
HIGH VOLTAGE: adjustable from 0 to 1500 V (optional 0 to 2500 V)
THRESHOLD: adjustable from 5 mV to 3300 mV
WINDOW: adjustable from 5 mV to 3300 mV (can be enabled or disabled)
AMPLIFIER GAIN: adjustable from 1 to 15 V/V
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: 7.5 to 36 VDC at 3 W maximum
TEMPERATURE RANGE: -15 to 50 °C (5 to 122 °F), may be certified to operate from -40 to 65 °C (-40 to 150 °F)
SIZE (H x W x L): 10.9 x 29.2 x 10.7 cm (4.3 x 11.5 x 4.2 in.)
WEIGHT (Model 4612): 1.7 kg (3.8 lb)

SOFTWARE: Provided computer software package allows for setting and changing of all parameters including HV, Threshold, Window, Scaler Count Time, and Output Time. There is also an HV Plateau Routine that allows for detector plateauing of any or all channels of the instrument. Other features include data logging capabilities and scaler operations in slave or recycle modes.

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