

TECHNICAL SPECIFICATIONS

NUCLEAR DATA INC

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ND600 Intensified Region Peak Extraction Package (47-0055)

The ND600 Intensified Region Peak Extraction Package provides the ND600 System with the capability of determining the peak channel, FWHM and intensity information for each intensified region of interest between the left and right markers in the current display group. Upon determining the peak channel in each region, the following information is outputted at the IO1 device: the peak number (from left to right), the channel location of the left limit of the region, the number of channels in the region, the peak channel energy, the FWHM in energy, the background counts in the region, the area (total counts in the region minus the background counts), the percent error (square root of the area plus two times the background, divided by the area), the counts per second (area divided by current elapsed live time in seconds), and the peak to background ratio (peak channel height divided by the background height).

The intensified region peak extraction (XTRCT) function can be assigned to any of the "F" status parameters by entering its select code (100). The XTRCT function can be performed either by depressing the corresponding "F" pushbutton or as a step in an auto analysis sequence. When the XTRCT function is selected as a step on an auto analysis sequence, it is performed on the data spectrum in the current acquisition group rather than the current display group.

The Intensified Region Peak Extraction Package consists of four 512 x 8 EPROM's (two firmware pairs) which require the Firmware Option board (70-2434) for installation.

Sample Printout of Peak Extraction Report on a 2048-channel GeLi spectrum with five previously assigned peak regions of interest.

PN	LM	MW	PKE	FWHM	BGND	AREA	%ER	CTS/SEC	PK/BGND
1	178	14	185.00	3.022	4914	22117	0.81	1843.083	19.765
2	202	10	207.00	3.057	2210	3493	2.55	291.083	4.874
3	980	18	990.00	3.391	612	6570	1.34	547.500	50.917
4	1745	14	1753.00	3.817	126	847	3.91	70.583	21.288
5	1983	13	1990.00	4.552	58	706	4.06	58.833	31.547

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Specifications subject to change
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