

## **SINGLE CHANNEL ANALYSER**

### **SALIENT FEATURES**

- HIGH STABILITY AND RESOLUTION FOR SPECTROMETRY • ACCURATE VARIATION OF BASE LINE AND WINDOW • HIGH BASELINE LINEARITY AND WINDOW WIDTH CONSTANCY • LATEST IC TECHNIQUES • COMPATIBLE WITH EC STANDARD NIM NUCLEAR MODULAR INSTRUMENTS



### **INTRODUCTION**

PLA Single Channel Analyser Type SC-604PS has a wide-dynamic range and high stability resolution necessary for high-resolution spectroscopy experiments. The SC-604PS has three modes viz. INTEGRAL, NORMAL & WINDOW.

### **TECHNICAL SPECIFICATIONS**

<b>Input</b>	: Positive unipolar or bipolar 0 – 10V linear range.
<b>Input Impedance</b>	: 1K $\Omega$
<b>Pulse Pair Resolution</b>	: Better than 1 $\mu$ sec
<b>Measuring Modes</b>	: INTEGRAL, NORMAL & WINDOW modes
<b>Output</b>	: 10V Positive pulse of 0.5 $\mu$ s width available
<b>Output Impedance</b>	: Less than 100 $\Omega$
<b>Lower Level Discriminator</b>	: Variable from 0 to 10 V by means of 10 turn helipot
<b>External LLD Ref. Input</b>	: 0 to 10V (12V maximum) 1K $\Omega$ input impedance
<b>LLD Output</b>	: 10V positive pulse of 0.5 $\mu$ sec width available on the rear panel
<b>LLD Output Impedance</b>	: Less than 100 $\Omega$

<b>Upper Level Discriminator</b>	: Variable from 0 - 10V when on NORMAL mode Variable from 0 – 2V when on WINDOW mode It is ineffective when on INTERNAL mode.
<b>Non-Linearity</b>	: Less than 0.3% of full scale for both discriminators
<b>Window Width Constancy</b>	: Less than 30 mV variable over the linear 0 – 10 V range
<b>Maximum Zero Offset</b>	: Less than 0.5% of full scale for both the discriminators
<b>Power Requirement</b>	: -12V            25mA +12V            150mA
<b>Connector</b>	: 24 Pin amphenol(or equiv.) standard connector for EC std. BIN
<b>Dimension</b>	: Standard single width module

**NOTES**

- 1) This module is also available with 42 pin connector & suitable for international NIM BIN.
- 2) Mechanical dimensions and location of controls may be changed without notice to suit the latest design techniques and/or the state of art.

CAT. NO.: SC604PS/0903

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