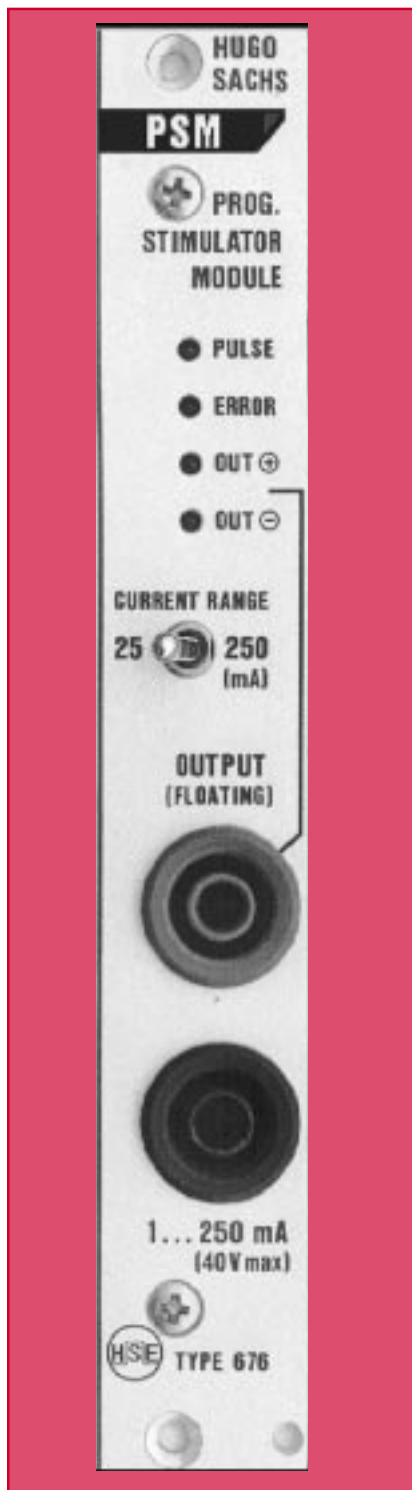


HSE-Harvard Programmable Stimulator Module (PSM)

- Combination of stimulator and measurement system in one
- Up to 8 channels in one main frame
- For applications with tissue baths



The Programmable Stimulator Module PSM is a square-wave single-channel stimulator with isolated constant-current output for the PLUGSYS system. It has been developed specially for stimulating isolated tissue in physiological and pharmacological research. The stimulator is operated through software from a PC. All the settings are performed through the control program STIMULUS or through HSE-Harvard* Software ACAD or ISOHEART. The system features interactive operation, i.e. all inputs are set at a special user level with window menus. The instrument settings are stored inside the computer on disk or hard disk and can at any time be loaded into the stimulator module using the control program. With automated experimental setups the stimulator can be controlled from evaluation software (ACAD or ISOHEART). For example, in automatically evaluating the refractory period of an isolated guinea-pig atrium each stimulation cycle is followed by recalculation of the interval between the first and second stimulus of the twin stimulation, and the appropriate changes are then made to the settings of the stimulator module. The unit cannot be operated by itself.

Specifications

Construction	Programmable Stimulator Module PSM designed as module of HSE-Harvard* PLUGSYS measuring system; occupies one slot unit
Hardware Required	Pentium computer, at least 100 MHz; HSE-Harvard* PLUGSYS basic system case, Type 603; HSE-Harvard* data acquisition hardware, PLUGSYS version; DIM-D Digital Bus Link for DIM
Software Required	Microsoft WINDOWS 95/98/NT; HSE-Harvard* Stimulator Control Program Stimulus, supplied; HSE-Harvard* software ACAD, ISOHEART or BDAS
Operating Modes	Free-running (continuous stimulation); hardware-triggered through control signal; software-triggered through control command; single or twin stimulation; output current polarity fixed or alternating (automatic change-over after each stimulation cycle)
Basic Rhythm R	Continuously adjustable between 100 msec and 10 sec
Delay D	Spacing between stimulus 1 and stimulus 2 adjustable between 1 msec and 1 sec, or 0 for no twin stimulation
Width W	Stimulus duration adjustable between 0.5 msec and 200 msec
Output O	Output can be programmed from 1 mA to 25 mA or from 10 mA to 250 mA (manual change of current range)
Control Software Stimulus	Installation program, menu-controlled operating level
Power Supply	+ 5 V/700 mA and + 24 V/1 A through connector from PLUGSYS system bus
Dimensions, H x W x D	128.7 x 20.2 x 220 mm (5.1 x 0.8 x 8.7 in)
PLUGSYS Width*	1 slot unit
Connector	DIN 41612, 96-pin VG
Weight	0.35 kg (0.8 lbs)

Catalog No.
 Descontinuado
 CGS 8392.71
 CGS 8456.71

Product
 PSM Programmable Stimulator Module
 Software Module for PSM Control to ACAD, ISOHEART, BDAS