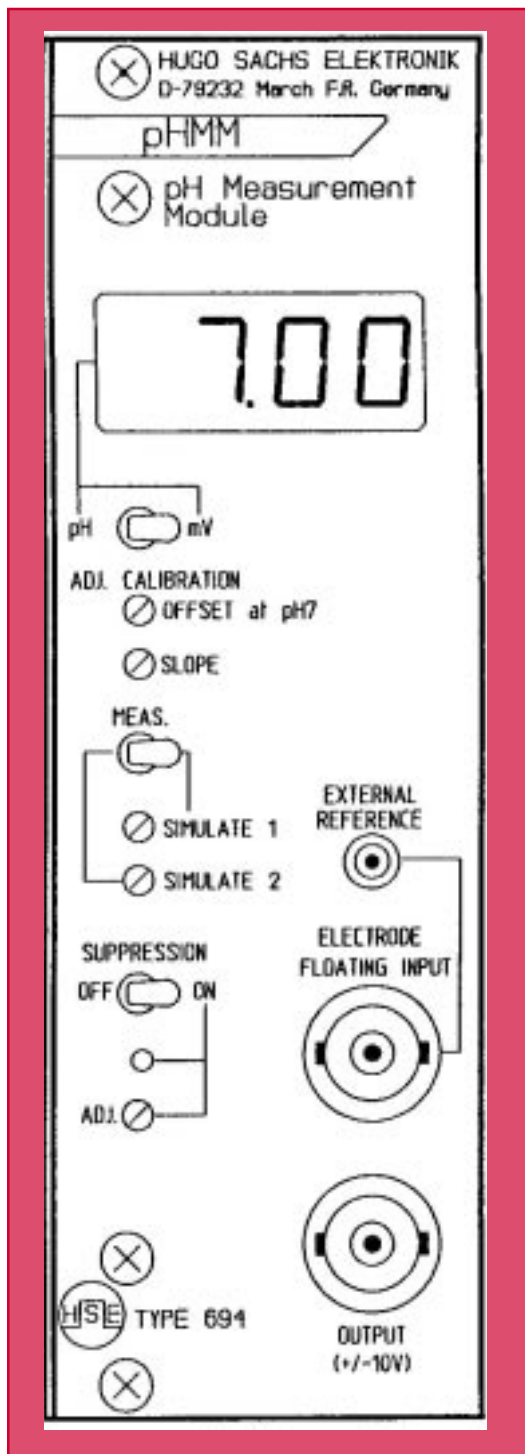


HSE-Harvard pH Measurement Module (pHMM)

- pH Meter Module
- Floating input to avoid leakage currents
- Digital Display for pH reading
- Specially Designed for continuous pH measurement in in-vitro perfused organs experiments

The HSE-Harvard* pH Measurement module is used to measure pH with pH glass electrodes. The main application is continuously pH recording with the combination pH electrodes for measurement in biological fluids such as perfusate for isolated perfused organs. The input circuit of the module includes an isolation amplifier (potential separation between sensing electrode and circuit ground of the PLUGSYS measuring system) to avoid measurement errors due to ground loops and leakage currents.



Specifications

Input	Floating single-ended input, isolated barrier internally clamped to 300 V
Input Connector	Isolated BNC connector
Input Impedance	$10^{15} \Omega$
Input Bias Current	$\pm 300 \text{ fA}$
pH Range	0 to 14
Resolution	0.01 pH
Display	3 1/2 -digit LED display
Millivolt Range	$\pm 600 \text{ mV}$
Offset Range at pH7	$\pm 100 \text{ mV}$
Slope	45 mV/pH to 90 mV/pH
Output	1 V per 1 pH on BNC connector on front panel ($\pm 10 \text{ V}$); output voltage is also available on PLUGSYS bus
Suppression	OFF, output voltage 0 V = pH 0 and 10 V = pH 10 ON, output voltage 0 V can be adjusted to any pH in the range 0 to 14
Slope Adjustment	2 point adjustment using calibrated buffer solutions
Simulation	Physiological measuring range for calibrating recording output can be simulated using 2 corresponding push buttons; each simulated value can be adjusted in pH range of 0 to 14
Power Supply	+5 V/450 mA (2.25 W)
Dimensions, H x W x D	128.7 x 40.4 x 220 mm (5.1 x 1.6 x 8.7 in)
PLUGSYS Width*	2 slot units
Connector	DIN 41612, 96-pin VG
Weight	0.4 kg (0.9 lbs)

Catalog No.	Product
CGS 8422.71	pHMM pH Measurement Module