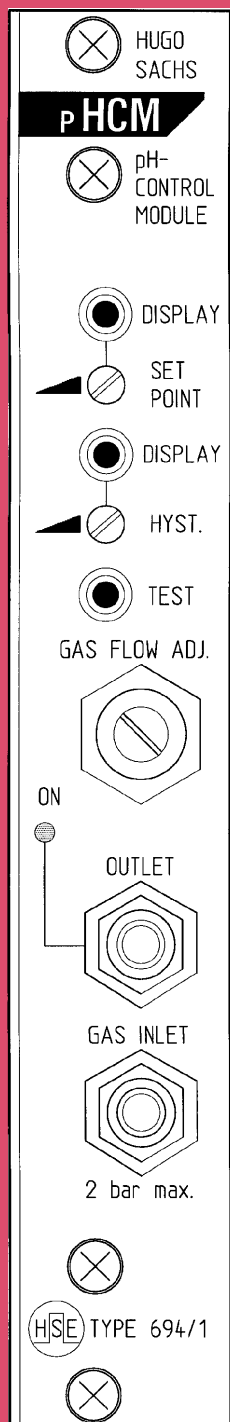


HSE-Harvard pH Control Module (pHCM)

- Module for controlling the pH of a perfusion buffer for isolated perfused organs
- Controls gas flow (generally CO₂)
- only in combination with the pHMM module Type 694

The pHCM module Type 694/1 is used for maintaining a constant pH in perfusion systems. It can only be used in conjunction with pHMM pH Measurement Module in the PLUGSYS system.

The main application is in ensuring a constant pH of biological solutions, as e.g. the perfusate of isolated organs as isolated lung, heart, liver, kidney or isolated tissues. To control the pH a gas (commonly CO₂) flow bubbling through the perfusion solution is switched on and off. Fine adjustment of the rate of gas flow is by a built-in needle valve. The required pH value and the permitted fluctuations (Hysteresis) can be adjusted on trimmer potentiometers and can be indicated on the corresponding pHMM module by pressing a key.



Specifications

Control Range, Setting	SET POINT is adjustable between approx. pH 6.5 and pH 8.5; set value is indicated on pHMM module by pressing DISPLAY key
Differential, HYST	Adjustable between approx. 0.05 to 1 pH units; setting is indicated on pHMM module by pressing DISPLAY key
Controlled Medium (Gas)	Depends on perfusion solution used and on control direction; when used on Krebs-Henseleit solution where pH has to be reduced: CO ₂ gas
Required Condition of Controlled Medium (Gas)	Dirt particle size 25 µm max., dry gas pressure 2 bar max.
Gas Flow	Continuously adjustable
Power Supply	From pHMM module to which it is linked
Dimensions, H x W x D	128.7 x 20.4 x 100 mm (5.1 x 0.8 x 3.9 in)
PLUGSYS Width	1 slot unit
Connector	10-way ribbon cable to pHMM module
Weight	0.1 kg (0.22 lbs)

Catalog No.	Product
CGS 8423.71	pHCM pH Control Module