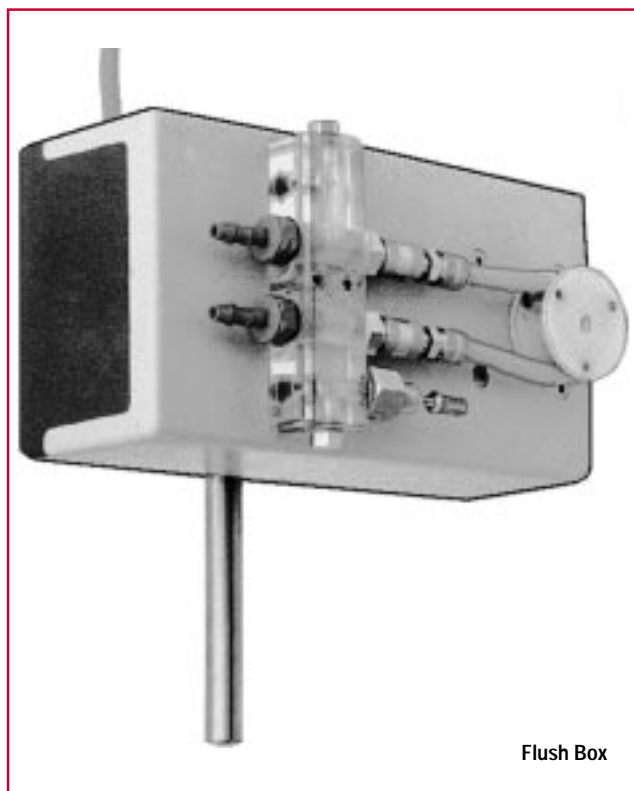


HSE-Harvard Perfusion Pressure Control Module (PPCM) with Control and Flush Box



Specifications

PPCM Module, Type 671

To Control Box	Control Unit, which carries all control elements and can be placed near apparatus, is connected to this socket.
To Pump	In order to ensure optimum oxygen saturation, a small continuous gas flow is required. This is achieved through roller pump (Flush Box). Rapid reductions in perfusion pressure are obtained by discharging through solenoid valve. Roller pump and valve are contained in flush box and must be placed near apparatus. Connection to PPCM module is made with 9-pin connector.
Gas Inlet	Connection to primary pressure of gas supply through pressure reducer, max. input pressure to inlet 500 mbar.
Outlet	Output for controlled pressure, which must be connected to Langendorff or Working Heart Apparatus (oxygenator).
G	This trimmer potentiometer is used to adjust GAIN of control system for perfusion gas pressure.
Z	This trimmer potentiometer is used to adjust ZERO (Offset) of measuring system for perfusion gas pressure.

Specifications

Control Box for PPCM:

Gas Select	4 different gas mixtures can be selected with switch in conjunction with Gas Select Module (GSM); system is first vented and then charged with new gas mixture
Measured Perfusion Pressure	Shows measured perfusion pressure in mmHg
Release Pressure	Vents system to atmospheric pressure; used as emergency switch-off if perfusion flow too high; prevents gas embolism
Error:	Shows following errors:
P	Input pressure missing
H	Gas flow to oxygenator too high
L	Gas flow to oxygenator too low
Display Preset	Pressure step set by pressing key and turning rotary switch; amplitude of step in mmHg shown on "Preset Pressure" display
Step Up	Increases pressure in oxygenator by one step amplitude
Step Down	Decreases pressure in oxygenator by one step amplitude
Preset Pressure	Shows preset perfusion pressure; by pressing SET key, pressure is set in oxygenator
Set Lock	If key pressed, chosen preset pressure is directly set on oxygenator without pressing SET key
Set	Sets pressure in oxygenator to chosen value ("Preset Pressure"). At beginning of experiment, hydrostatic pressure should be subtracted from perfusion pressure; this can be done, after switching on system by setting hydrostatic pressure in preset pressure display and pressing SET key
Remote	ON when computer is controlling PPCM; in this case, all keys on Control Box are out of action except for "Release Pressure" key which functions as emergency cut-out to set system to atmospheric pressure in case of mistake
Power Supply	Power for electronics as well as solenoid valves and pumps is supplied through PLUGSYS bus system; +5 V/ 800 mA, + 24 V/0.9 mA
PPCM Module:	
Dimensions, H x W x D	128.7 x 40.5 x 220 mm (5.1 x 1.6 x 8.7 in)
PLUGSYS Width*	2 slot units
Control Box:	
Bench Housing	100 x 220 x 160 mm (3.9 x 8.7 x 6.3 in)
Cable	2 m (6.6 ft) long
Flush Box:	
Small Housing	240 x 100 x 100 mm (9.5 x 3.9 x 3.9 in)
Cable	2 m (6.6 ft) long
Weight	0.7 kg (1.5 lb)

Catalog No.	Product
CGS 8389.71	PPCM Perfusion Pressure Control Module