

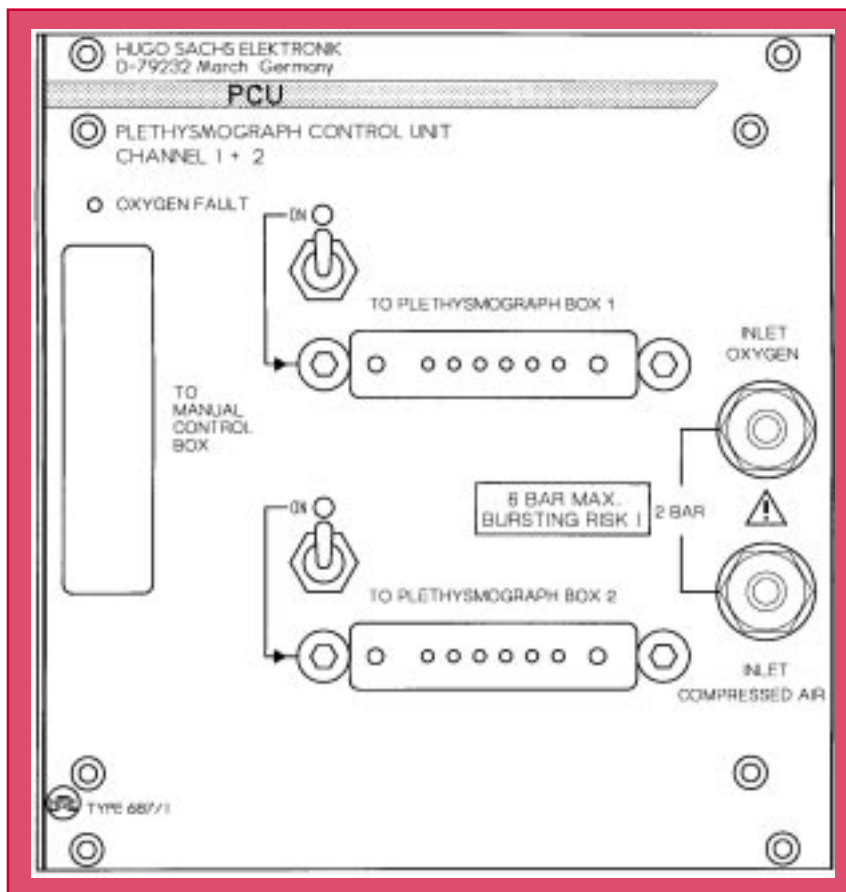
## HSE-Harvard Plethysmograph Control Unit Module (PCU)

- Control unit for switching valves, jet nebulizers, oxygen flushing in a multiple animal study using Plethysmograph Box 855
- Can be driven by the HSE-Harvard Software PULMODYN 'Pennock'

This module has been developed specially for the investigation of bronchospasmolytic-active substances on the awake animal in combination with the plethysmograph box type 855 and the membrane valves in the PLUGSYS system. This type of experiment involves switching valves, nebulizer and oxygen periodically on and off in a specific sequence.

The PCU module together with the Manual Control Box is used to automate and synchronize the switching of these valves, nebulizer etc.

On the Manual Control Box it is only necessary to select a specific state (measurement, challenge, flushing, calibration) and the PCU switches all the valves according to this state. The PCU also delivers the bias flow for the Plethysmograph box. One PCU can control two plethysmograph boxes. With an extension module it is possible to control up to four boxes. In addition the module provides for control of all four plethysmograph boxes from a computer so that a complete computerized system can be set up. This module also incorporates monitor functions. It checks whether oxygen pressure for flushing is applied and provides an appropriate warning. It also checks whether aerosol challenge is followed by flushing and if not provides a warning. The connection to the plethysmograph boxes consists of 6-way ribbon tubing with the connectors 'To Plethysmograph Box 1' and 'To Plethysmograph Box 2'. Each channel can be switched on and off separately.



### Specifications

<b>Inlet Oxygen</b>	Receives oxygen for flushing plethysmograph box — DO NOT exceed 6 bar
<b>Inlet Compressed Air</b>	For switching membrane valves, driving aerosol jet nebulizer and generating bias flow in plethysmograph box via venturi jet — DO NOT exceed 6 bar
<b>LED Oxygen Fault</b>	Blinks and sounds beeper if no oxygen is delivered (empty cylinder or closed valve at oxygen pressure reducer)
<b>Power Supply</b>	5 V/600 mA, through connector from PLUGSYS bus system
<b>Dimensions, H x W x D</b>	128.7 x 121.9 x 220 mm (5.1 x 4.8 x 8.7 in)

Catalog No.	Product
CGS 8463.71	PCU Plethysmograph Control Unit for Channel 1
CGS 8464.71	PCU Plethysmograph Control Unit Extension for Channel 2 or 4
CGS 8465.71	PCU Plethysmograph Control Software PULMODYN Pennock for Channel 3