

# HPA Series AC Test Set Controllers



**C3/P Option** - C3 Controls with PLC interface

**C4 Option** - C3 Controls with 4.5 digit meters

**C5 Option** - Touch Screen programmable and PC interfaced

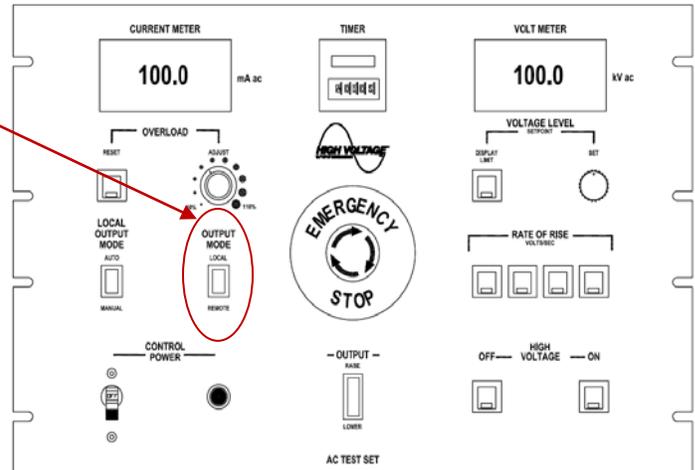
**C3/P controller** is the C3 controller that also offers input and output control provisions to interface with a remote programmable logic controller (PLC) or some other customer supplied controller. It can be operated in the Local mode using the front panel controls or in the Remote mode via customer supplied external controls.

## Local Controls – front panel

Same as C3 controller but with OUTPUT MODE switch to engage remote control operation.

## Remote Controls – inputs/outputs

Input Control terminals and Output Feedback signals are provided, permitting the remote control of the unit for most functions and output signals to communicate with the external controller. When in the REMOTE mode, all front panel controls are disengaged except for the Emergency Off and Volt and Current meters.



## Input Remote Control Signals

Contact N/O: Close HV ON - Open HV OFF  
Rate of Rise: 0-10V = 10s – 100s to full output  
Contact N/O: RAISE – Close to operate  
Contact N/O: LOWER – Close to operate  
Contact N/C: Overload Reset – Open to operate  
Overload Set Point: 0-10Vdc = 10 - 110% current

## Output Feedback Signals

Remote Enabled: N/O  
Main Power ON & High Voltage ON: N/O  
Overload FAULT: N/O  
Voltage: 0-10Vdc = 0 - 100% output voltage  
Current: 0-10Vdc = 0 - 100% output current  
Voltage return to 0 (automatic after overload): N/O

## **C4 Controls – C3 but with digital meters upgraded from standard 3.5 digits to 4.5**

The **C4 controller** is the same as the C3 controller but offers 4.5 digit meters rather than the 3.5 digits found on the standard C3 controller. The 4.5 digit meters instead of 3.5 digits offer a higher resolution in reading the voltage and current displayed. The description of the C3 controller can be found on the rear of the HPA Series brochure.

## **C5 Controls – PLC programmed and controlled (see separate C5 data sheet)**

The **C5 controller** uses a front panel mounted touch screen to permit full programming of the test sets operation. It supplies output signals (voltage, current, and time) to a remote computer for data logging and report generation.

- C1, C2, & C3 controls are described in the HPA Series Brochure -
- Complete C5 controls can be found on its own specification sheet -

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