<u>C5 Controller Description</u>

As used in the HPA and PAR series, and other custom models

The C5 PLC controller provides a high level of control using an on-board PLC with a 5.9 inch (640 x 480) high resolution color touchscreen. A 10/100 Ethernet connection is available to users for downloading test results in csv format. We use the Horner EXL6 PLC and preprogram at our factory for system control including:

-Automatic or manual operation
-HV on / HV off, raise / lower voltage, trip-off level set (10 to 110% of system current rating)
-Set test voltage, dwell time, ramp rate, trip-off level, start test
-Ramp rate is adjustable (between 10 and 100 sec. zero to full voltage)
-Trip-off level can be left at max (sample failure) or a particular leakage level
-Observe voltage and current levels during test. Save and recall test profiles and results.

Horner offers free or low-cost software for control scheme modification or remote viewing and control by your PC (Windows based). Commercially available software can provide for advanced integration.

The controller is typically mounted in the input regulator section of the test set and includes an Emergency Stop button.

Links: (for the Horner EXL6)
https://hornerautomation.com/product/exl6/
Software to program the PLC:
https://hornerautomation.com/product/cscape-no-symbols-free/
Software for remote view and control of the PLC:
https://hornerautomation.com/product/cscape-envision-rv/
If you want to use modbus you can do custom programming using labview:
https://www.ni.com/en-us/shop/labview.html

HVI HIGH VOLTAGE, INC. 31 County Rt. 7A • Copake, NY • 12516
t. 518-329-3275 • f. 518-329-3271 • sales@hvinc.com • hvinc.com

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