

Klystron Test Set

For GEN III, CKPA and GEN IV KPAs

Klystron Test Set

For checking klystron
cathode emission

Test Equipment



- *Reduces HPA downtime while testing klystrons*
- *Provides for accurate measurement of the operating condition of tubes in storage*
- *High voltage interlock provides personnel protection against exposure to high voltage*
- *Allows full operator control over required test conditions*
- *Fully self-contained and circuit breaker protected*
- *Portable with top-mounted carrying handle*

satcom  products

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Test Equipment

Klystron Test Set

Klystron Test Set (p/n 0104804200)

This portable klystron test set is designed to check the operability of high power klystron tubes by determining the cathode emission at a nominal beam voltage of 1000 volts. Manual heater voltage and beam voltage controls permit full operator control over the required test conditions. Heater voltage/current and beam voltage/current monitoring are provided.

The klystron test set was developed to reliably evaluate the operating condition of tubes in storage. Without the test set, determining a tube's condition requires it to be installed periodically into a transmitter socket. This is a time-consuming procedure requiring off-the-air time for the KPA. The test set can also be used to age a tube prior to installation or to clean up any contamination that may have developed during shipment or lengthy storage periods.

The klystron test set is protected by AC circuit breakers utilized together with beam supply and heater supply circuit breakers. Personnel protection against exposure to high voltage is achieved with the integral tube lead interface connector, which has high-voltage interlocking.

This test set can be used with all GEN III, CKPA and GEN IV klystrons. GEN IV multi-stage depressed collector (MSDC) klystrons require an adapter cable (p/n 0103079800).

SPECIFICATIONS, High Voltage Test Set

Electrical

Line Voltage	115/230 VAC, single phase, 50/60 Hz
Heater Voltage at 10 AAC	10 VAC
Beam Voltage, at 100 mADC	0-1000 VDC

Protection

AC Line	Circuit breaker
Heater Supply	Circuit breaker
Beam Supply	Circuit breaker
Beam Supply	Interlock on high voltage interface connector

Front Panel Meters

Heater Voltage	0-10 VAC
Heater Current	0-10 AAC
Beam Voltage	0-1000 VDC
Beam Current	0-80 mADC

Front Panel Controls

Heater Power	On/off switch
Beam Power	On/off switch
Heater Voltage	Adjusting knob
Beam Voltage	Adjusting knob

Mechanical

Dimensions	11.38 x 8.5 x 13.0 inches (289 x 216 x 330 mm)
Weight	35.7 lbs (16.2 kg)
Housing	Portable carrying case
Output Terminals, positively grounded	Recessed banana jacks
Finish	Baked enamel
AC Supply Cord	Five-foot, 3-wire, U ground

For more detailed information, please refer to the corresponding CPI Technical Description.

Note: Specifications may change without notice as a result of additional data or product refinement.

Please contact CPI before using this information for system design.