

406C Analog In-Circuit Tester

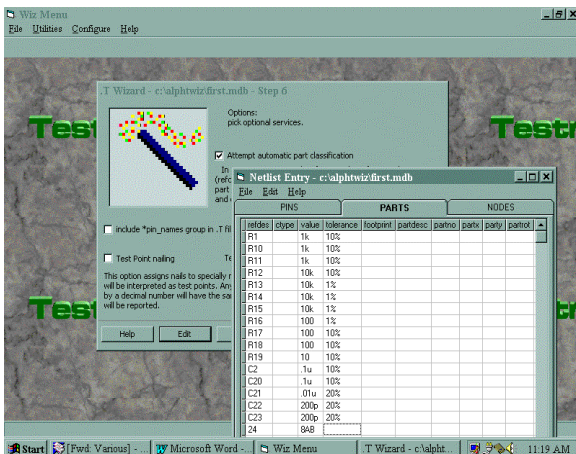
More Flexibility, Lower Cost

The 406C is an open architecture power-up test platform designed to facilitate the implementation of analog power-up testing and functional testing after the MDA test is completed. Internally dubbed as "The Armadillo" the new architecture provides the user almost unlimited flexibility by combining the best of VME bus style into a dedicated ICT bus. The 406C comes as a basic platform with your choice of receiver interfaces. GR2270 for a maximum of 1600 test points, GR2272/2286 for a maximum of 3840 test points, and Teradyne Z1800 for a maximum of 2048 test points. For higher pin counts, the Model 401 receiver has a maximum of 20,480. An ergonomically designed tilt cabinet houses the complete system. Switch cards can be mixed and matched based on your application. 6-wire pure-pin solid state switch cards and reed relay cards can be combined to offer a low cost test solution. Custom features, application specific circuitry, IEEE, and PC cards can be easily integrated into the 406C for power-up functional testing.

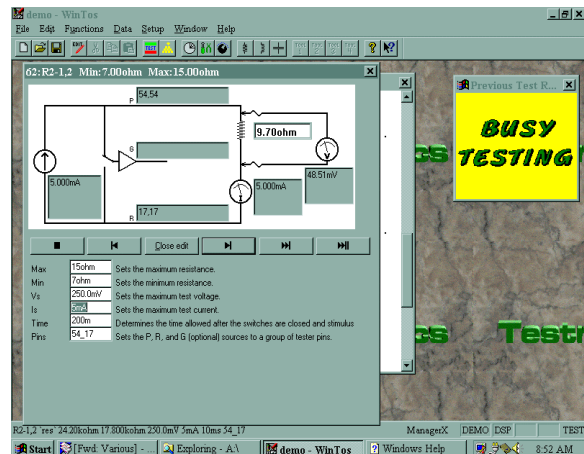
Low Cost of Ownership is a Testronics philosophy. Not only is the one time system cost low, but the long term repeatable costs are low. The training at our Texas facility is free of charge, there are no software licensing fees, there are no software upgrade fees. The system can be maintained and programmed by technician level personnel.



WinTos Software



Automatic CAD Translation .T Wizard



Single Step Real-Time Debug Screen

FOR MORE INFORMATION, PLEASE VISIT US AT OUR WEB SITE:

www.testronics.com

WinTos Software

The 400 Series testers are all controlled by standard PC's communicating through the parallel port. Windows 95/98 true 32-bit WinTOS application software makes operating and programming very user friendly. Real time measurement debug screens will take the technician programmer step by step through the test program allowing changes in source voltage & current, guarding, measurement polarity, test limits, etc. The graphical display will register the changes immediately and incorporate them into the test program giving the user quick access to program changes.

406C Specifications

DC Voltage & Current	Programmable 16-bit Range	Accuracy	AC Voltage & Current	Programmable 16 Bit Range	Accuracy
Voltage Source	25mV–10.0V	+/-0.5%F.S. +/-0.5% Value	Voltage Source	25mV–10.0V	+/-0.1%F.S. +/-0.1% Value
Voltage Meter	2.5mV–10.0V	+/-0.5%F.S. +/-0.5% Value	Voltage Meter	10mV–10.0V	+/-0.5%F.S. +/-0.5% Value
Current Source	250nA–10mA	+/-0.5%F.S. +/-0.5% Value	Current Source	25uA–10mA	+/-0.5%F.S. +/-0.5% Value
Current Meter	250nA–10mA	+/-0.5%F.S. +/-0.5% Value	Current Meter	25uA–10mA	+/-0.5%F.S. +/-0.5% Value
Guard Voltage Source	25mV– 10.0V	+/-0.5%F.S. +/-0.5% Value	Component Measurement Capability		
Guard Voltage Meter	2.5mV–10.0V	+/-0.5%F.S. +/-0.5% Value	Resistive Range	.01Ω – 100 MΩ	+/-1% F.S. +/-1% Value
Guard Current Source	250nA–100mA	+/-0.5%F.S. +/-0.5% Value	Capacitance Range	10pF – 5F	+/-2% F.S. +/-2% Value
Guard Current Meter	250nA–100mA	+/-0.5%F.S. +/-0.5% Value	Inductive Range	10uH – 10H	+/-2% F.S. +/-2% Value

Power-up Card Specifications

6-wire Power Up Relay Cards
3-wire Power Up Relay Cards
Measurement Matrix
Auxiliary Matrix

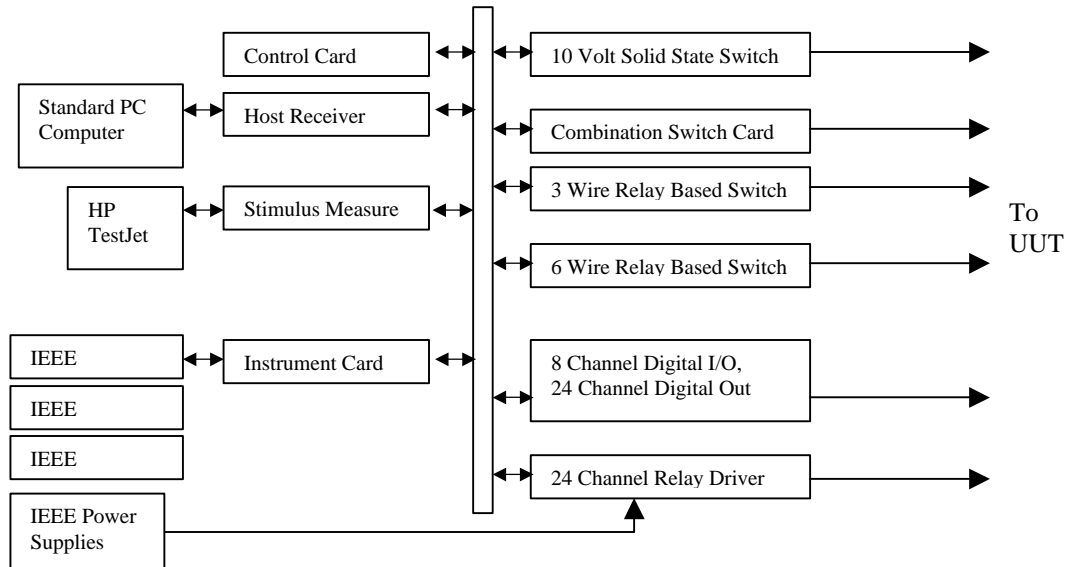
Range

0 – 50V 0 – 1.5A
0 – 50V 0 – 1.5A
6 Lines by n pins
10 Lines by n pins

Option Card Specifications

Hybrid Cards - Combination 10V switch matrix / Isolation Relay
Instrument Matrix Card – 64 external lines x 6 input matrix
24 Channel Relay Driver – 24 N/O programmable relay contacts, 8 digital TTL input bits, also configurable for 24 digital TTL bits

406C System Architecture



Base System Advanced Features

- Industry standard GR2270 style receiver for the ability to use any fixture source
- Up to 1600 fully bi-directional test points, larger pin counts available with other receivers
- Multiple board panel auto-programming and testing
- Unlimited guard points with true 6-wire Kelvin measurements
- Pure pin non-multiplexed matrix for simple programming
- Vectorless IC testing – Automatic IC signature learn for detection of open SMT solder joints, reversed IC's, solder bridging, and wrong IC's
- Scan pins feature speaks the test point number when external probe is used on fixture or uut.
- Custom .exe programs for advanced applications can be executed from WinTos and variables returned: pass, fail, abort, integer values, and message strings
- Automatic vacuum control for dual well fixturing
- Unlimited test steps with branching, looping, & mathematical operations on user defined variables
- Win 98 software provides quick programming
- Multilevel Password protection
- No charge software updates, No charge training
- No Software Licensing Fees
- CAD translation software
- Continuous process control & data logging
- LCR Quadrature measurements for parallel circuits
- All pins have parallel drive and sense capability
- Automatic test program generation
- Bar code compatible
- RS232 software controllable
- Vacuum, press down, dual well, double sided access, & fine pitch fixturing

Options

- Graphical Failure Viewer
- HP Test Jet Technology
- Diagnostic & Calibration Fixture
- Turn Key Programming & Fixturing
- International Training & Service
- Spare Board Kit
- IEEE Control Card & Software
- Power-Up Relay Cards
- Functional Instrumentation Card