

2504 Upgrade

The 2504 upgrade replaces the control system and instrumentation used in DIT-MCO systems that contain Series 13 switching. Using your current terminal selector, you can maximize your investment in switching, adapter cables, and test programs. The 2504 upgrade offers you:

- Improved reliability and decreased downtime
 - Easily maintained modular components
 - Compatibility with existing subsystems such as Capacitance Comparator Subsystem, Analog Comparator Subsystem, Digital Comparator System (DCS III, phase 2), AC Dielectric (requires dielectric ATA assembly), Latching Matrix, and External Energization
 - The benefits of computer automation
 - DIT-MCO's latest software featuring simple, user friendly operation
 - State-of-the-art electronics to replace obsolete or hard-to-find components
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Transform your DIT-MCO Models 8210 and 9100 while decreasing maintenance costs and downtime. The 2504 upgrade eliminates obsolete and expensive, hard-to-find older parts. The upgrade includes an industry standard computer to replace the older computer control console (CCON). The new network-ready computer helps automate and streamline processes while reducing human error and improving communications within and between departments. Use it to access, copy and/or transfer engineering data, test programs, or test results. The computer requires DIT-MCO's T81 operating system, version 5.0 or later. This delivers the latest time-saving features found in DIT-MCO's current software. With Windows™ support and menu-driven, the software does not demand computer training or typing skills to use.

As part of the upgrade, you receive a single 10-1/2" x 19" chassis to replace your logic rack and comparator in the master switching console. The new chassis contains a printed circuit board with the control interfaces for the enhanced parallel port (EPP IEEE 1284) and ATA as well as an optional Single Board Comparator (SBC). These printed circuit boards provide a modular system that is easy to maintain. The 2504 upgrade operates with your existing terminal selector and interfaces to the computer's EPP. You will significantly reduce upkeep costs as well as enhance functionality.

The 2504 upgrade also accommodates Digital Comparator Systems (DCS). The DCS option delivers greater measurement precision. It produces accurate digital measurements for greater fault detection. The completely self-calibrating instrument has its own standard reference eliminating external instruments. Self-calibration takes only minutes for vast maintenance cost savings. To use an existing DCS, make sure it is at least a DCS-III, phase 2.

When upgrading, choose the configuration that best meets your specific needs. The 2504 upgrade incorporates the new control and comparator chassis into your existing cabinet. Or choose a new, low-profile cabinet with a rack-mounted computer to replace the present control console. Either configuration can include the DCS option. Talk to your DIT-MCO regional sales manager or corporate sales staff for information on upgrading your particular configuration.

With the 2504, you can gain the *power and reliability of a new system at a fraction of the cost.*



SINGLE BOARD COMPARATOR SPECIFICATIONS

The SBC is a single printed circuit assembly for measuring resistance, voltage, and capacitance while comparing these values to programmable limits. Since the SBC is not ground referenced, you can test grounded products easily and effectively.

Single Board Comparator (SBC-3) Specifications

<u>Source</u>	<u>Range</u>	<u>Stimulus Programming Steps</u>	<u>Accuracy</u>
Low Voltage	0.225 to 29.75V	0.075V	±5%±0.25V
High Voltage	30 to 1500V	2V	±5%±5V
Constant Current	0.005 to 2.0A	2.5 mA	±5%±5mA

Constant Current Measurements

<u>Stimulus(Amps)</u>	<u>Range (Ohms)</u>	<u>Accuracy</u>
0.005 to 0.0975	10 to 99.9K	±10%, ±1Ω
0.1 to 2.0	1 to 999	±2% ±1Ω
0.1 to 2.0	1K to 99.9K	±1% ±1Ω
1.0 to 2.0 (Compensated)	1 to 99.9	±3% ±0.1Ω
0.1 to 0.975 (4-Wire only)	0.1 to 999	±2% ±0.03Ω
1.0 to 2.0 (4-Wire only)	0.01 to 0.0999	±1% ±0.003Ω
1.0 to 2.0 (4-Wire only)	0.1 to 999	±1% ±0.015Ω

Constant Voltage Resistance Measurements

<u>Stimulus(Volts)</u>	<u>Range (Ohms)</u>	<u>Accuracy</u>
0.25 to 5.00	10 to 9.99K	±20%, ±10Ω
5.25 to 29.75	10 to 99.9K	±3%, ±10Ω
30 to 98	100K to 9.99M	±3 %
100 to 498	100K to 99.9M	±3 %
500 to 1500	100M to 499M	±5%
500 to 1500	500M to 1000M	±10%

Dielectric Detector

<u>Stimulus(Volts DC)</u>	<u>Limits (mAmps)</u>	<u>Accuracy</u>
250 to 1500 in 2VDC steps	0.5 to 2.5 in 0.5mA steps	±20%

Voltage Measurements

<u>DC Voltage (Volts)</u>	<u>Accuracy</u>	<u>AC Voltage (Volts)</u>	<u>Accuracy</u>
0.01 to 0.990	±10%±10mV	1 to 9.99	±15%±0.1V
1 to 9.99	±5%±10mV	10.0 to 99.9	±15%±1V
10 to 99.9	±5%±100mV	100 to 500	±10%±5V
100 to 1500	±5%±1V		

Capacitance Measurement

<u>Range</u>	<u>Accuracy</u>
10 to 99 nF	±20%
0.1 to 1000 μF	±10%

Dwell Times

<u>Range (Seconds)</u>	<u>Accuracy</u>
0.001 to 16.383	±2mS±1 conversion
0.01 to 163.83	±2mS±1 conversion
0.1 to 1638.2	±2mS±1 conversion

