

MIL-STD-1665  
 NOTICE 6  
 23 April 1985

MILITARY STANDARD  
 TEST EQUIPMENT FOR THE  
 STANDARD ELECTRONIC MODULES PROGRAM

TO ALL HOLDERS OF MIL-STD-1665:

1. THE FOLLOWING PAGES OF MIL-STD-1665 ARE NEW OR HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

NEW PAGE	DATE	SUPERSEDED PAGE	DATE
5	23 April 1985	5	1 May 1984
6	1 May 1984	6	Reprinted without change
B05-1	23 April 1985		
B05-2	23 April 1985		

2. RETAIN THIS NOTICE AND INSERT BEFORE TABLE OF CONTENTS.

3. Holders of MIL-STD-1665 will verify that additions indicated above have been entered. This notice will be retained as a check sheet. This issuance, together with the appended pages is a separate publication. Each notice is to be retained by stocking points until the Military Standard is completely revised or canceled.

Custodians:  
 Army - ER  
 Navy - EC  
 Air Force - 85

Preparing activity:  
 Navy - EC  
 (Project 5963-0034)

Review activities:  
 Army - AT, AV  
 Navy - AS, SH  
 Air Force - 13, 17, 19  
 DLA - ES

User activities:  
 Army -  
 Navy -  
 Air Force -

Agent:  
 DLA - ES

## INDEX

<u>Equipment</u>	<u>Item No.</u>
Ammeter, dc	X01
Ammeter, dc	X02
Ammeter, dc	X03
Ammeter, dc	X04
Ammeter, dc	X05
Amplifier, low noise	A03
Amplifier, power	A01
Analyzer, distortion	B01
Analyzer, signal	B05
Analyzer, spectrum	B03
Analyzer, wave	B02
Analyzer, wave	B04
Attenuator	R08
Attenuator, balanced	R09
Bridge, capacitance	C01
Bridge, capacitance	C03
Bridge, capacitance	C04
Bridge, capacitance, rf	C02
Bridge, inductance	L01
Bridge, inductance	L02
Bridge, inductance, rf	L03
Bridge, megohm	R06
Bridge, resistance	R02
Bridge, resistance, rf	R03
Counter-timer	T01
Decade, synchro/resolver standard	F03
Digital multifunction meter	M02
Filter, tunable	N01
Frequency meter	T02
Frequency meter	T03
Generator, function	G05
Generator, function	G06
Generator, function	G10
Generator, pulse	J01
Generator, pulse	J02
Generator, pulse	J04
Generator, pulse	J05
Generator, pulse	J06
Generator, power	Q01
Generator, random noise	K03
Generator, rf signal	G11
Generator, sine wave	G01
Generator, sine wave	G02
Generator, sine wave	G03
Generator, sine wave	G04
Generator, sine wave	G08
Generator, power sine wave	G07
Generator, power sine wave	G09
Generator, square wave	H01
Generator, square wave	H02
Generator, time-mark	K01
Generator, word	J03
Leakage tester, high voltage dc	U01
Leakage tester, high voltage ac	U02
Load, electronic	EL01
Meter, capacitance	C05
Multifunction meter, analog	M03
Multimeter (VOM)	M01
Ohmmeter	R01
Ohmmeter	R04
Ohmmeter	R05
Ohmmeter	R07
Ohmmeter	R10

Supersedes page 5 of  
1 May 1984

## NOTICE 6

## INDEX - Continued

<u>Equipment</u>	<u>Item No.</u>
Oscilloscope, high frequency-	D01
Oscilloscope, high frequency-	D03
Oscilloscope, high frequency-	D06
Oscilloscope, high frequency-	D07
Oscilloscope, high gain -	D02
Oscilloscope, UHF sampling system	D04
Oscilloscope, UHF sampling system	D05
Phasemeter-	Z03
Photometer, digital -	K02
Power supply, constant current-	P05
Power supply, dc-	P01
Power supply, dc-	P02
Power supply, dc-	P03
Power supply, dc-	P04
Power supply, dc-	P06
Power supply, dc-	P07
Probe, oscilloscope current	Y03
Probe, oscilloscope current	Y05
Probe, oscilloscope voltage	Y02
Probe, oscilloscope voltage	Y04
Probe, oscilloscope voltage	Y06
Probe, wide band-	Y01
Resolver/synchro bridge -	F04
Standard, dc voltage-	P08
Standard, dc voltage and null meter	P09
Tester, LSI -	U03
Transformer, isolation-	E01
Transformer, isolation-	E02
Transformer, isolation-	E03
Transformer, isolation-	E05
Transformer, ratio-	F01
Transformer, ratio-	F02
Transformer, ratio-	F05
Transformer, Scott "T"-	E04
Voltmeter, ac -	W01
Voltmeter, ac -	W02
Voltmeter, ac -	W03
Voltmeter, ac -	W04
Voltmeter, ac -	W05
Voltmeter, ac -	W06
Voltmeter, dc -	V01
Voltmeter, dc -	V02
Voltmeter, dc -	V03
Voltmeter, dc -	V04
Voltmeter, dc -	V05
Voltmeter, dc -	V06
Voltmeter, differential ac/dc -	Y07
Voltmeter, phase angle-	Z01
Voltmeter, phase angle-	Z02
Voltmeter, rf -	W08
Voltmeter, true rms -	W07
Wattmeter, ac -	S01
Wattmeter ac/dc -	S02

Supersedes page 6 of  
16 January 1984

ITEM 805  
ANALYZER, SIGNAL

TYPE OF EQUIPMENT- - - - - Automatic signal analyzer.

FUNCTION PERFORMED - - - - - Performs precise frequency and amplitude measurements in the 10 Hz to 13 MHz region.

SPECIFICATIONS

Frequency characteristics

Range - - - - - 10 Hz to 13 MHz.

Scanwidth - - - - - Any desired scan in 10, 100, or 1000 steps of frequency increments as small as 0.1 Hz with a 0.1 Hz resolution.

Resolution

Bandwidth - - - - - 3 Hz to 10 kHz in a 1, 3, 10 sequence.

Bandwidth selectivity - - - - - 60 dB/3 dB bandwidth ratios  $\leq$  11:1.

Stability

Long term - - - - -  $\pm 1 \times 10^{-8}$ /day;  $\pm 1 \times 10^{-6}$ /month.

Temperature

20°C to 30°C - - - - -  $\pm 1 \times 10^{-8}$  of frequency at 25°C.

0°C to 55°C - - - - -  $\pm 1 \times 10^{-7}$  of frequency at 25°C.

Phase noise - - - - - <50 dB down in a 30 kHz band.

Center frequency accuracy

3 Hz to 100 Hz, 1 kHz, 3 kHz bandwidth - - -  $\pm 10\%$  of bandwidth setting.

300 Hz bandwidth - - - - -  $\pm 45$  Hz.

10 kHz bandwidth - - - - -  $\pm 500$  Hz.

Amplitude specifications

Absolute amplitude calibration ranges - - - -130 dBm to +20 dBm (50 or 75  $\Omega$ )  
-140 dBV to +10 dBV.

Digital amplitude readout - - - - -  $\pm 199.99$  dB with 0.01 dB resolution.

Dynamic range

Average noise level - - - - - -127 dBV in 1 kHz resolution bandwidth.

Spurious responses - - - - - >70 dB below input range setting.

Distortion responses - - - - - >80 dB below input signal at input range setting level.

Power line related responses - - - - - 70 dB below input range on +10 dBV through -40 dBV ranges; 60 dB on -50 dBV; 50 dB on -60 dBV ranges.

## B05 - Continued

## Amplitude accuracy

Frequency response - - - - -  $\pm 0.25$  dB (250 kHz reference).Input range - - - - -  $\pm 0.05$  dB/step;  $\pm 0.15$  dB total  
accumulation.

## Log linearity

0 to -30 dB - - - - -  $\pm 0.1$  dB.-30 to -60 dB - - - - -  $\pm 0.25$  dB.-60 to -80 dB - - - - -  $\pm 0.75$  dB.Input power - - - - - 115 or 230V  $\pm 10\%$ , 48 to 63 Hz.

## EQUIPMENT MEETING ALL SPECIFICATIONS

Manufacturer - - - - - Hewlett Packard Model 3044A Signal  
Analyzer.