

Advanced Test Equipment Corporation

Rentals • Sales • Calibration • Service

10401 Roselle Street, San Diego, CA 92121 800-404-ATEC (2832) www.atecorp.com



CI00402

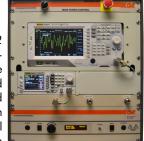
- M1-M5
- RF Conducted Immunity System
- 100 Watts nominal
- 10kHz-400MHz

Features

Complete Testing Solutions to the following standards:

- MIL-STD-461 CS114
- DO160 (Section 20) BCI Testing
- EN/IEC 61000-4-6
- IEC 60601-1-2
- EN 50130-4
- EN 61000-6-1/2
- EN 55024
- ISO 11452-4

The Model Cl00402 is a fully self-contained state of the art system designed to test RF Conducted Immunity. The system contains a signal generator, spectrum analyzer, 100W nom-



inal AR amplifier, a 10 kHz to 400 MHz directional coupler and emcware® control software. Everything is contained in a single housing, which eliminates setup issues. This system provides the versatility needed for every test labor-

atory and equipment manufacturer. The RF amplifier, signal generator and spectrum analyzer can be used independently of the system. If special needs arise or standards were to change a larger amplifier can be connected to the system. The use of spectrum analyzer and signal generator may also be controlled by software.

Option 1 adds data acquisition capability. Option 2 provides a laptop PC. Option 3 is a lower cost solution providing all the functions and features of the full Cl00402 base model without the cost of the internal amplifier.

The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

Internal Test Specifications (See NOTE 1)	
CI00402	
MIL-STD-461 (CS114)	
DO160 (Sec 20 BCI Test)	
IEC/EN 60601-1-2	
IEC/EN 50130-4	
IEC/EN 61326	
IEC/EN 61000-6-1	
IEC/EN 61000-6-2	
IEC/EN 61000-4-6	
CISPR 24/EN 55024	
ISO 11452-4	
EMC-CS-2009	
GM GMW3097	
BMW GS95002	
Chrysler DC-11224	
Renault 36-00-808	
NOTE 1. Specifications can be mot using AP	

NOTE 1: Specifications can be met using ARspecified external accessories (injection probes, monitor probes, cal fixtures, CDN's, attenuators, etc.) Contact AR for further information.

Signal Generator Specifications		
Frequency range	9 kHz to 1.5 GHz	
resolution	0.01Hz	
Power range	-110 to +13 dBm	
resolution	0.01dB	
Modulation AM, FM, Phase, Int P		
	Ext Pulse	

Spectrum Analyzer Specifications		
Frequency range	9 kHz to 1.5 GHz	
resolution	1 Hz	
RF Power CW (max)	20 dBm	
Atten = $30 dB$		
Resolution BW	10 Hz to 1 MHz	
Video BW	1 Hz to 3 MHz	
Amplitude Measure-	-110 dBm to +20 dBm	
ment Range	in 1 dB steps	
Preamplifier Gain	20 dB (nom)	
Sweep Time,	10 msec to 1500 sec	
span> 100 Hz		

AR RF/Microwave Instrumentation 160 Schoolhouse Rd Souderton, PA 18964 215-723-8181

For an applications engineer call: 800.933.8181

www.arworld.us

CI00402

- M1-M5
- RF Conducted Immunity System
- 100 Watts nominal
- 10kHz-400MHz

Specifications

RF Amplifier Specifications		
Frequency range	10 kHz to 400 MHz	
Power rating	100 Watts Minimum	
1dB compression	75 Watts Minimum	
Harmonic Distortion	-20dBc at 75 Watts	
Mismatch tolerance	100% of rated power without fold back. Will operate without damage or oscillation with any magnitude of source and load impedance.	
Gain	50 dB minimum	

Connections		
RF Out	Type N (front)	
Monitor Port In	Type N (front)	
Signal Generator Out	Type N (rear)	
RF Amp In	Type N (rear)	
Directional Coupler In	Type N (rear)	
RF Amp Out	Type N (rear)	
Pulse In	BNC (rear)	
Communication	USB B (rear)	
Directional Coupler Fwd Out	Type SMA (rear)	
Directional Coupler Fwd In	Type SMA (rear)	
Directional Coupler Rev Out	Type SMA (rear)	
Directional Coupler Rev In	Type SMA (rear)	

General		
Power	115/230 VAC, 50/60 Hz, single phase 610W max	
Breaker	2 pole, 20A	
Cooling	active cooling, air ventilation	
Environmental conditions	10°C - 40°C	
Dimensions,	50.3 x 53.3 x 55.1 cm	
	19.8 x 21.0 x 21.7 in	
Weight	49.9 kg (110 lb)	

Control Interface		
USB B	Connection to the computer	

Control Software		
emcware® Software Suite		
PC Requirements		
Computer	Intel Pentium 4, AMD Athlon 64 or better processor	
Operating system	Windows 7, Windows 8, Windows 10	
RAM	2 GB Minimum	
Screen Resolution	1024 x 768	
Ports	2 available USB 2.0 ports	
Software Require- ments	Microsoft Word/Excel 2010 or newer	

Options	
1	Data acquisition card
2	Laptop PC
3	Amplifier and directional coupler removed; requires use of external amplifier.

MODEL CONFIGURATIONS		
MODEL	DESCRIPTION	
CI00402M1	Includes Option 1	
CI00402M2	Includes Option 2	
CI00402M3	Includes Option 3	
CI00402M4	Includes Options 1 & 2	
CI00402M5	Includes 17025 traceable calibration for signal generator and spectrum analyzer	

Accessory Kits

Application	Model	Description
IEC 61000-4-6 BCI Clamp	TK1000	Conducted immunity test kit containing all the attenuators, injection probes, calibration fixtures, calibration resistors, and termination resistors necessary for IEC testing of cables up to 32mm diameter.
IEC 61000-4-6 BCI Clamp	TK1001	Conducted immunity test kit containing all the attenuators, injection probes, calibration fixtures, calibration resistors, and termination resistors necessary for IEC testing of cables up to 66mm diameter.
IEC 61000-4-6 EM Clamp	TK1002	Conducted immunity test kit containing all the attenuators, injection probes, calibration fixtures, calibration resistors, and termination resistors necessary for IEC testing.
MIL-STD-461 DO160	TK2000	Conducted immunity test kit containing all the attenuators, injection probes, calibration fixtures, calibration resistors, and termination resistors necessary for MIL-STD-461 and DO160 testing.
Automotive	TK3000	Conducted immunity test kit containing all the attenuators, injection probes, calibration fixtures, calibration resistors, and termination resistors necessary for automotive testing.