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ESD-255 ELECTROSTATIC DISCHARGE GENERATOR

SPECIFICATIONS

115 volt AC, 50 to 60 Hz single phase, INPUT

three conductor grounding line cord.

Continuously adjustable from zero to OUTPUT

25 KV DC.

Wide View, 3 1/2", 90 degree extended range. VOLTMETER

Two ranges: 0 - 5,000; 0 - 25,000 volts.

Output voltage accuracy: + 5%.

Two probes are available using distributed PROBES

line techniques to replicate the wave forms of static discharge from personnel with a metal intervening object such as a key, ring

(Probe P255-1) deck chairs or push cart

(Probe P255-2). The networks of these probes

replicate these complex networks.

8 1/2" deep X 16 1/2" wide X 11" high. SIZE

15 lbs. WEIGHT

INTRODUCTION

1.0 GENERAL

The Andy Hish Electrostatic Test Generator, Model ESD-255, provides a comprehensive simulation of the broad spectrum of electrostatic discharge events that occur under actual-use conditions.

Comparative data taken between actual ESD events and those produced by the ESD-255 illustrate that: (A) the spectral distribution of the dynamic impulses is virtually identical; (B) the correlation of waveform-to-amplitude is virtually identical; and, (C) the time interval between impulses in the multiple-pulse ESD event series is comparable. (See Appendix A)

1.1 SPECIFICATIONS

PROBES

INPUT 115 volt AC, 50 to 60 Hz single phase, three conductor grounding line cord.

OUTPUT LEVEL Continuously adjustable from zero to 25 KV DC.

IMPULSE WAVEFORM See Appendix A (Bulletin 057255-1)
CHARACTERISTICS

Two probes are currently available using distributed line techniques to replicate the wave forms of static discharge from personnel with a metal intervening object such as a key, or ring, (Probe 255-1) desk chair or push cart (Probe 255-2). It should be noted that the ESD circuit is significantly more complex than a simple R-C network description. The networks of these probes replicate these more complex networks. (Other probes on custom order basis are described herein)

SIZE 8 1/2" Deep X 16 1/2" Wide X 11" High.

WEIGHT 15 LBS.

Initialization Level: 2000 Volts

P255-1 Probe

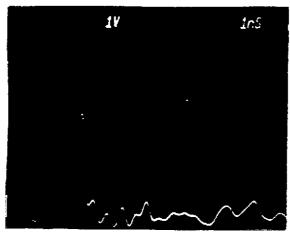


Figure 2 A

Vert: 10 Amps/Div Time: 1 nSec/Div

Displayed:

Ip: 41 Amps
Tr: 500 pSec
Width: 50%-50%
450 pSec

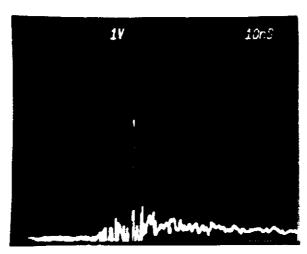


Figure 2 B

Vert: 10 amps/Div

Time: lons/Div

Displayed:

Ip: 42 Amps

Initialization Level 10KV P255-2

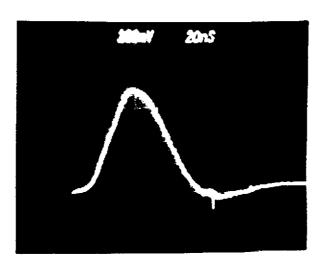


Figure 4

10 amps/Div 20nSec/Div Vert: Time:

Displayed:
Ip: 36 Amps
Tr: 10nSec