# **ZETA THREE USER BULLETIN #19**

# **ESD Protection Kits**

(Zeta-Three, Zeta-Three "B", Zeta-Three em, and Zeta-Remote)

Nov 07, 1991

In certain static-prone environments, some Zeta-Three units in the field have suffered malfunctions due to the effects of Electrostatic Discharge (ESD).

An ESD "event" occurs when a person or a piece of furniture which has built up a very high static charge is instantaneously discharged through the air to another object, producing a familiar blue spark.

Characteristic symptoms of a resultant malfunction in the Zeta may be the appearance of hexidecimal characters in the Generator display, or a Transport control output becoming "stuck", or other inexplicable errors.

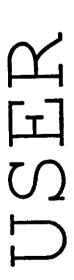
Recent research efforts have led to the production of a series of <u>ESD Protection Kits</u>, which will give the Zeta-Three an added measure of protection against excessive ESD activity.

Incorporation of these Kits into Zeta-Three's already in the field is not recommended unless ESD problems have been experienced.

The application of ESD Protection Kits has been divided into two distinct phases:

Phase 1: These kits are entirely "field-installable", and should provide the required extra protection for the majority of unfavorable ESD environments.

Phase 2: The single kit of the second phase is somewhat more difficult to install, and requires the services of a skilled technician. This kit should not be necessary unless ESD conditions are in fact quite hostile, or if ESD problems still persist after the application of the Phase 1 kits.



# **ESD Protection Kit Names and Descriptions**

#### Phase 1

ESD-Z-1 Adds ESD Protection to the Zeta-Three itself.

ESD-R Adds ESD Protection to a Zeta-Remote and its cable.

Kit contains a number of easily installed filters for the Remote cable. Disassembly of the Zeta-Remote is required, but internal modification is

extremely simple.

# Phase 2

ESD-RF

ESD-Z-2 Component Kit for ESD Protection within the Zeta-Three.

This kit is not for the faint at heart. Only experienced technicians should attempt

SHOULD IN COUNTY IN THE PRINCE .

\$ 75.00

installation of ESD-Z-2.

Factory installation will be available.

### **ESD Protection Kit Pricing**

ESD-Z-1	[Zeta-Three (Phase 1)]	\$ 95.00	The same of the sa
ESD-R	[Zeta-Remote]	\$ 10.00 Kits uswall	
ESD-Z-2 ESD-Z-2F ESD-ZF	[Zeta-Three (Phase 2)] ESD-Z-2 with Factory Installation ESD-Z-1 and ESD-Z-2 with Factory Installation	\$ 5.00 \$ 140.00 \$ 255.00	-

In the U.S., kits may be purchased from the factory. Outside of the U.S., consult your local distributor.

ESD-R with Factory Installation