FUJIKURA FIBER OPTIC VIETNAM LTD.

ESD MEASURING FOR ROADM LINE							
WORK INSTRUCTION: 000/5-WI-121	Version: 02	Page : 1/8	Effective date: 8-Feb-12				

I. Purpose

This work instruction is established the guideline of ESD protected areas measuring Roadm line

II. Application

This work instruction is applied to Roadm line production in the Fujikura Fiber Optics Vietnam

III. Reference document

- 1. 4-OP-596 ESD cleaning room requirements.
- 2. 4- OP-613 ESD Control program.
- 3. Standard: IEC 61340-5-1.
- 4. ANSI/ESD SP20.20
- 5. Manual Instruction of Metriso 2000-Test Kit equipment.
- 6. Manual Instruction of TB-3041-1 equipment.

IV. Terminology

ESD: Electrostatic discharge EPA: ESD protected areas IVA: Immediate vicinity area

V. Measuring equipment

A. Mertriso 2000-Test Kit equipment



Checked by: Nguyen Quoc Hung Date: 7-Feb-12	Approved by : Phan Vinh Thach Date : 7-Feb-12
Prepared by: Nguyen Quoc Hung Date: 7-Feb-2012	DRINTOIIT

1

ESD MEASURING FOR ROADM LINE

WORK INSTRUCTION : 000/5-WI-121 Version: 02 Page : 2/8

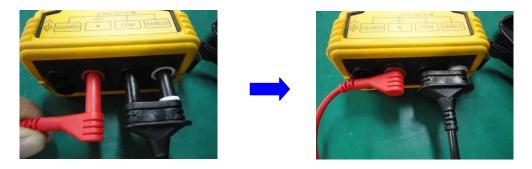
1. Operating instruction:

a. Installation.

- Assembling the T/F adapter: Insert the battery into the T/F adapter. Connect the temperature –humidity adapter to the instrument IR interface.



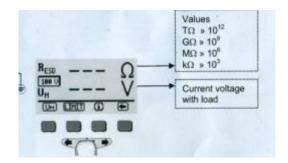
- Connecting the cables: Connect the red cable to the instrument's red marked socket. Connect the black, shielded test the cable with the double plug to the "black & white" COM/ SHIEDED socket



- Switch ON/OFF: Press any button to switch on the instrument. The instrument can be switched off by pressing simultaneously the two outermost buttons. Automatic shutdown is also included.



b. Value reading.



ESD MEASURING FOR ROADM LINE WORK INSTRUCTION: 000/5-WI-121 Version: 02 Page: 3/8

B. Ionization test kit:



1. Feature:



- A. HOLD Button: Press to freeze the reading on the display, press again to return to normal measurement operation.
- B. RANGE/ ZERO Button: Press to select the measuring range, Press and hold to zero the
- D: POWER Button: Press to turn the unit ON and OFF

2. Operation:

a. Power is turn on

L COPY IF PRINTOUT Press Power button to turn on

b. Battery check

The battery should be replaced when "BAT" is indicated on the display

c. Zero the meter.

Press and hold the RANGE/ZERO button until the Meter display ".000"

ESD MEASURING FOR ROADM LINE

WORK INSTRUCTION: 000/5-WI-121 Version: 02 Page: 4/8

d. Value reading: Press the hold button to freeze the reading





VI. Measuring Process.

A. Resistance measuring:

- Using Mertriso 2000-Test Kit equipment
- Select U=100V when measured for Class 2 measuring and select U=500V when measured for Class 3

Resistance to Ground Rg

a. Working surface

Measuring method



UNCONTROL COPY IF PRINTOUT

ESD MEASURING ESD FOR ROADM LINE

WORK INSTRUCTION: 000/5-WI-121 Version: 02 Page: 5/8

b. Flooring

Measuring method



c. Shelf Measuring method



d. Seating Measuring method: ONTROL COPY IF PRINTOUT



WORK INSTRUCTION: 000/5-WI-121 Version: 02 Page: 6/8

e. TraysMeasuring method



f. Wrist Measuring method



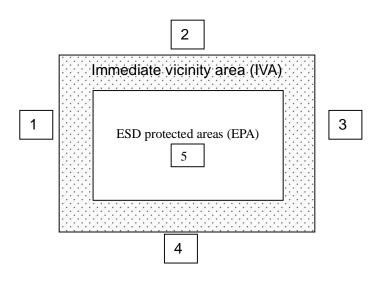
UNCONTROL COPY IF PRINTOUT

ESD MEASURING ESD FOR ROADM LINE				
WORK INSTRUCTION: 000/5-WI-121	Version: 02	Page : 7/8		

g. Max volt of IVA measuring:

Using Ionization test kit

Position to measure follow horizontal as figure below. And equal with surface working of ESD-Sensitive device follow vertical direction.



Value measuring= Max {(1); (2); (3); (4); (5)}



ESD MEASURING ESD FOR ROADM LINE WORK INSTRUCTION: 000/5-WI-121 Version: 02 Page: 8/8

Date	P.I.C	Version	Revised Content Description	Reason	Requester
20/Nov/2011	Nguyen Quoc Hung	01	Established	New Machine	Phan Vinh Thach
6/Feb/2012	Nguyen Quoc Hung	02	Add TB-3041-1 equipment	New machine	Phan Vinh Thach

UNCONTROL COPY IF PRINTOUT