

Test protocol

1. Customer:

Forend Elk. Mlz. ve Dış Tic. A.Ş.
19 Mayıs Mh. Büyükdere Cd. No: 4
34360 Basman Han K: 4 D: 4
Sisli - Istanbul - Turkey

2. Device under test:

Name: Forend Esclc / Aktiv Paratoner
Serial Number: FA-00
Manufacturer: Forend A. S.,
Dimension: Length: 580mm
Maximum diameter: 200mm

3. Demand of test:

Lightning current withstand test

4. Realisation of test:

The device under test is applied with one current impulse with the waveshape 10/350µs and the peak value of 100kA.

5. Measured results:

The parameters of the impulse current are given in following table.

Testsequence: Amp0327				Date: 04/Jul/2003 10:47:19		
3 different ESE devices						
Osc. no.	Peak value	Charge	Specific energy	Risetime	Time to half-value	Time
2	101,5kA	52,0As	2918,0kA²s	25,2µs	441,9µs	11:35

6. Result:

After the impulse current test there is no visible mechanical damage of the housing of the device under test.

Date of test: 2003-07-04

Test engineer: Dipl.-Ing M.Benzin

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7. Photos:

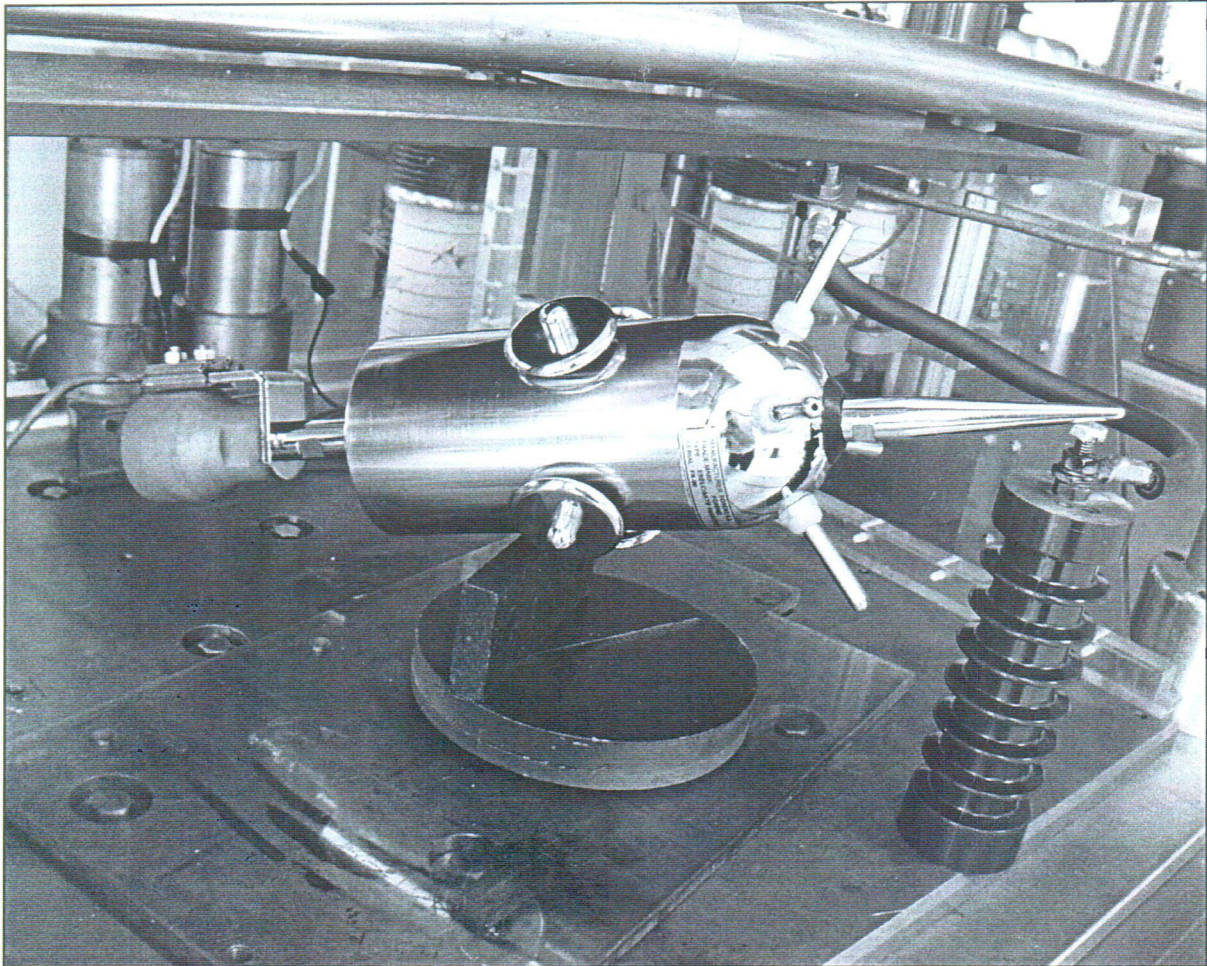


Figure 1: Test arrangement

Date of test: 2003-07-04

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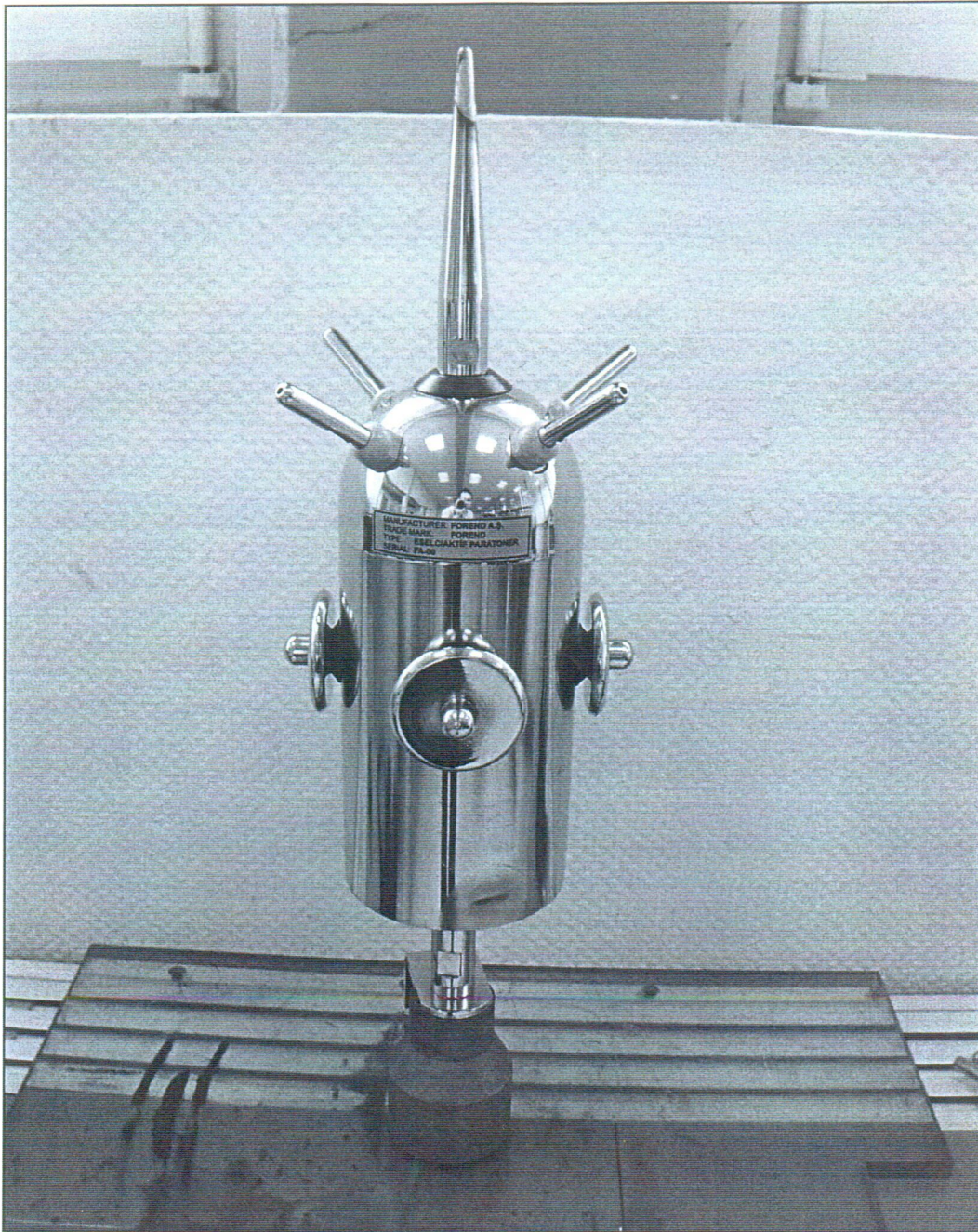


Figure 2: DUT after the impulse current test

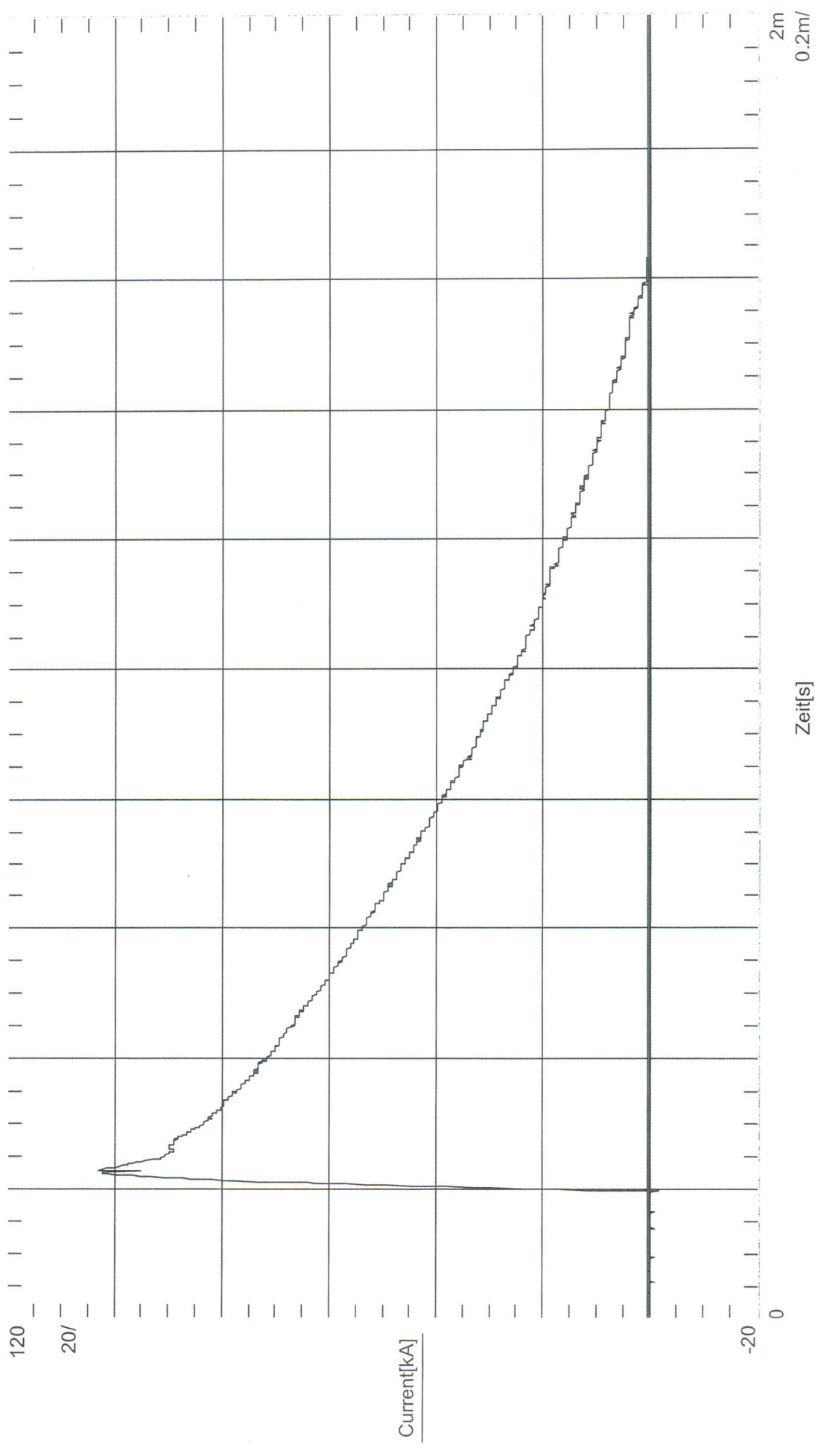
07.07.2003
BET GmbH
Fischkuhle 39
D- 58710 Menden

Test engineer
Dipl.-Ing. M.Benzin

[Handwritten signature]

Prüfsequenz: Amp0327 Aufnahme-Nr.: 2

Impulse Current



Peakvalue: 101.5kA Risetime: 25.2μs Time to halfvalue : 441.9μs Charge: 52.0As specific Energy: 2918.0kA²s
3 different ESE devices
04/Jul/2003 11:35