

# NT 830



| Value      | Tol. + | Tol. - | Offset |
|------------|--------|--------|--------|
| 120.00 Ohm | 10.0 % | 10.0 % |        |
| 1.00 kOhm  | 10.0 % |        |        |
| 1.00 MOhm  | 10.0 % |        |        |
| Vf         | Tol. + |        |        |
| Vz         | Tol. + | Tol. - | I max. |
| 5.10 V     | 10.0 % | 10.0 % |        |

**1500 VDC**  
**1050 VAC**  
**2 ADC**

|                | TP 1 | TP 2 |
|----------------|------|------|
| Varistor       |      |      |
| R_4            | 47   | 48   |
| Surge Arrestor | TP 1 | TP 2 |

Project: Harness PC 21  
 Serial Number: SN83029632  
 Test Time: 28,5 s

Test Steps:

- Continuity test
- Testing Net "Netz 1"
- Testing Net "Netz 1" - Subnet "Subnetz 1" from "TP1" to "TP2" - Measurement 166.43 mOhm
- Component test
- Testing Component "R11" - "R 1\_1" to "R1\_2" - Measurement 122.00 Ohm
- Testing Component "D1" - "Diode 1 (plus)" to "Diode 1 (minus)" - Measurement 634.92 mV
- Testing Component "D2" - "Diode 2 (plus)" to "Diode 2 (minus)" - Measurement 4.95 V
- Testing Component "C1" - "Capacitance 1\_1" to "Capacitance 1\_2" - Measurement 1.96 nF
- Testing Component "LED1" - "LED (plus)" to "LED (minus)" - Measurement 1.90 V
- Testing Component "G1" - "SAR 1\_1" to "SAR 1\_2" - Measurement 85.94 V
- Release
- Ready to test

Test Status: Ready to test

Summary:

|            |            |
|------------|------------|
| Total      | 12         |
| Good       | 12 100.00% |
| Passed Cut | 0 0.00%    |
| Failed     | 0 0.00%    |

### NT 830 – flexible tester for aerospace vehicles

#### System design:

- ▶ Distributed test systems consist of a base unit (control unit and measurement electronics) and TPUs (Test Point Units), which contain the test points. The remote controlled TPUs can be arranged as satellites around the UUT.
- ▶ High modularity in hardware and software
- ▶ Later test point expansion on „plug and play“ principle
- ▶ Large variety of application specific test point interfaces

#### System benefit:

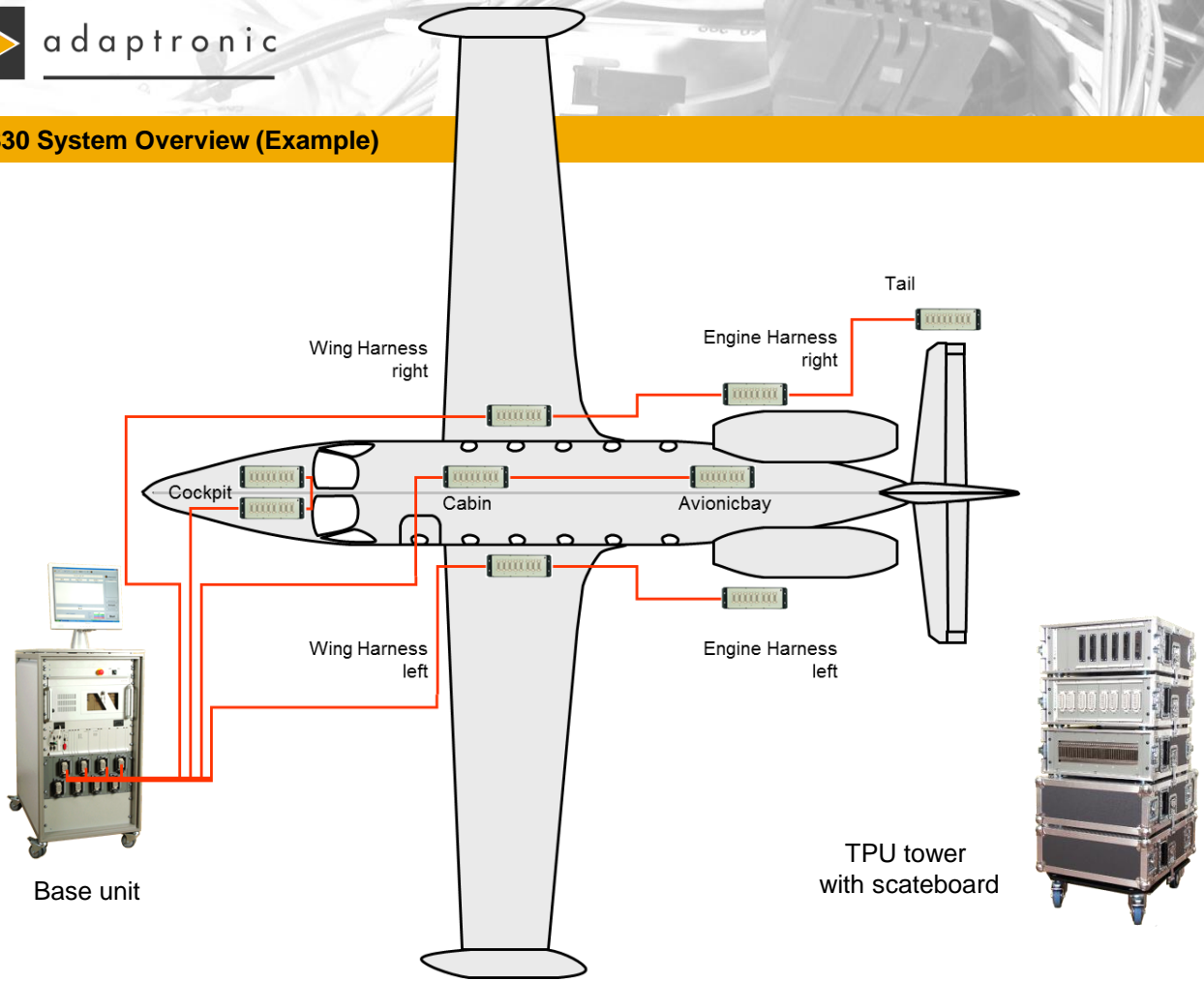
- ▶ Reduction of serial production costs
- ▶ High degree of automation in test program generation
- ▶ Verifiable coverage of the relevant standards, e.g. DIN EN 2283
- ▶ Reduction of the adapter cable lengths up to 70 %





### Usage especially for the test of extra large scale UUTs





- ▶ Pre- and final-assembly of aerospace vehicles like airplanes, helicopters and satellites
- ▶ Supplying industry of components like fuselage parts, wings, tail planes, galleys and their (sub-) cable harnesses etc.
- ▶ Flexible usage inside the test facility; centralized and decentralized arrangement of TPUs possible

### Ensuring of your product quality by high system availability

The high reliability of the adaptronic test systems, our quick response service and more than 30 years of experience make a convincing contribution to the quality assurance of your products.

**NT 830 System Overview (Example)**


| Base units         | Mobile                                                                              | integrative                                                                         | expandable                                                                           | maximal                                                                               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                    |  |  |  |  |
| Type               | 8,5 RU                                                                              | 12 RU                                                                               | 20 RU                                                                                | 25 RU                                                                                 |
| Particular feature | Transport case                                                                      | Under table installation                                                            | Movable cabinet                                                                      | Movable cabinet                                                                       |

| TPU types               | minimal                                                                             | universal                                                                           | concentrated                                                                         | maximal                                                                               |
|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                         |  |  |  |  |
| Type                    | TPU 1/3                                                                             | TPU 16/4                                                                            | TPU 32/8                                                                             | TPU 192/43                                                                            |
| Max. test voltage       | 1400 VDC / 850 VAC                                                                  | 1500 VDC / 1050 VAC                                                                 | 1500 VDC / 1050 VAC                                                                  | 1500 VDC / 1050 VAC                                                                   |
| Max. no. of test points | 64 (max. 1,024)                                                                     | 1,024                                                                               | 2 x 1,024                                                                            | 12 x 1,024                                                                            |

