**Checklist Electromagnetic Compatibility**

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| **Please answer and send back** |
|  E-Mail: 0271382702@t-online.de Mail: EMC Testhaus GmbH & Co. KG, Eiserfelder Str. 316, 57080 Siegen Contact: Adelina Mehmeti, Christoph Haubrich, René Panthel |
| **1. Contact details** |
|  Name:       Company:       Address:       E-Mail:       Phone:       |
| **2. Test specimen** |
|  Name:       Article description:       Serial number:       |
| **3. Function / Application area** (please attach block diagram, brochure, data sheet – please do not send complete manuals) |
|        |
| **4. Site of operation** (please checkmark where applicable) |
|  Residential area, business sector [ ]   Industrial sector [ ]  Automotive use [ ]  please specify       Other [ ]  please specify       |
| **5. Measure / weight test specimen**  |
|  Width x height x depth in mm:       x       x       Weight in kg:       Note:  Specimen up to 500 kg and (2000 x 2000 x 2000) mm - test can be done in laboratory. Otherwise tests can be done as on-site testing |
| **6. Supply voltage of specimen?** |
|  AC [ ]   DC [ ]  Battery [ ]  Voltage in V:       Output in W:       Protection class:  |
|  |
| **7. Clock rate?** |
|  None [ ]   < 108 MHz [ ]  Value       > 108 MHz [ ]  Value       |
| **8. Response time (operating cycle) of test specimen** |
|        |
| **9. Does test specimen contain magnetic sensitive elements** (e.g. Hall sensor) |
|  none [ ]  yes [ ]  please specify       |
| **10. Does test specimen contain motors** |
|  none [ ]  yes [ ]  asynchron [ ]  commutating [ ]   |
| **11. Number, maximum length and type of cables** |
|  Number Type of circuit Number of wires Length in m Screened       AC             yes [ ]  no [ ]        DC             yes [ ]  no [ ]        Data / Signal lines             yes [ ]  no [ ]        Control line             yes [ ]  no [ ]        Bus line             yes [ ]  no [ ]        Combination line             yes [ ]  no [ ]        Other             yes [ ]  no [ ]  |
| **12. Medical device ?** |
|  no [ ]  yes [ ]  does specimen collect physiological data? yes [ ]  no [ ]   |
| **13. Radio Equipment ?**  |
|  no [ ]  yes [ ]  specimen contains: radio transmitter [ ]  radio receiver [ ]  used signal?:       type of modulation:  |
| **14. Peripheral equipment operation of test specimen?**  |
|        |
| **15. Required liquid or gaseous media to operate test specimen?** (e.g. Air, Water, etc.) |
|        |
| **16. Technical safety requirements?** |
|        |
|  |
|  |
| **17. Kind of test?** |
|  [ ]  CE-Conformity [ ]  development-related measurements [ ]  type approval by Kraftfahrtbundesamt under ECE R10 [ ]  series monitoring, verification tests [ ]  Other:       CoP tests |
| **18. Required Standards** (if known) |
|  [ ]  Emission:       Test in parts? yes [ ]  please specify       [ ]  Immunity:       Test in parts? yes [ ]  please specify       |
| **19. Other non EU requirements?** (e.g. FCC, ICES, IEC) |
|  no [ ]  yes [ ]  Standards:       |
| **20. Results of premeasurements?** |
|  no [ ]  yes [ ]  |
| **21. Test specimen available in different versions?** |
|  no [ ]  yes [ ]  please specify       |
| **22. Please list types of operating modes** |
|  Operating mode 1:       Operating mode 2:       Operating mode 3:       Combined operating modes? no [ ]  yes [ ]  if yes, please list combined operating modes:       |
| **23. Please list functions to be monitored** |
|  Function 1:       Function 2:       Function 3:       Function 4:       Are the functions, which can be monitored together? no [ ]  yes [ ]  if yes – please list       |
| **24. Minimal performance level** (tolerances, etc.) |
|        |
| **25. Documentation / test reports** |
|  [ ]  Test report als PDF in german [ ]  test results only [ ]  Test report als PDF in english [ ]  optional paper edition (special request)  |

 **Informative:**

Technical instructions by the customer how to run the device and how it works are necessary before starting the tests!

According general business terms and conditions: missing or wrong informations of technical details or uncomplete instructions about the testing device, which lead to reduced performance or delay of time schedule, no legal responsibility is assumed.

If during the test operation any running conditions or characteristics of the testing device are recognized we had no knowledge before, the higher expenditure has to be payed by the customer.

Regarding declaration of conformity, the measurement uncertainty is not taken into account when determining the measured values or when using the test levels, unless otherwise specified.
A product is therefore considered to be compliant if the normative requirements are fulfilled.

1. Operation mode test specimen:

a. Test specimen has to be ready to use. Special equipment has to be provided.

b. Test programme should be provided

c. Operation time of tested device as longtime operation as much as possible (for longtime tests to

 avoid interruptions)

2. Lines:

a. Emission: half number of identical cables should be connected

b. Immunity: Cables of tested device should have minimum 1.5 / 2 m length.

c. Cables connected to peripheral equipment should have about 5 m length.

3. Reactions of specimen

a. How to recognize disturbances of the tested device?

b. Which kind of reactions are to expect?

c. Which kind of deviation or error definition is accepted by the customer?

d. Are there any results of premeasurements available (critical frequencies or special

 sensitiveness?)

3. Number of specimen

a. CE conformity/KBA type approval: 1
b. Series monitoring/CoP: 6 (from 6 samples to be provided, 1 is selected by technical service)
c. Development-related measurements/Other: Customized