

**Declaration of  
Design and Performance  
MT-Ultra Professional JTSO  
(DDP MTUP / 99 – 02)**

Dok-Nr.  
**DE-0006-000003**

Revision  
**0**

## Attachment 2-B: Enviromental Qualification Form

**Nomenclature:** MT Ultra Professional JTSO (ETSO)  
**Type/Model/Part No:** MTUP / 00 – 3.60 – 2 –  
**TSO Number:** JTSO–C113  
**Manufacturer's specification:** Specification MT-Ultra Professional JTSO(ETSO) MT-101/2004 Rev. A  
**Manufacturer:** AirPlus Maintenance GmbH  
**Address:** Flughafen 28  
 88046 Friedrichshafen  
 Germany  
**Revision No. of DO-160:** D

Conditions	Section	Description for Tests conducted
Temperature and altitude	4.0	Equipment tested to Category A1
Operating low temperature	4.5.1	-15°C
Operating high temperature	4.5.3	+55°C
Short time operating high temperature	4.5.2	+70°C
Ground survival low temperature	4.5.1	-55°C
Ground survival high temperature	4.5.2	+85°C
In-flight loss of cooling		Cooling air not required
Altitude	4.6	Equipment tested to Category <b>C1</b>
Temperature variation	5.0	Equipment tested to Category C
Humidity	6.0	Equipment tested to Category A
Operational shock and crash safety	7.0	Equipment identified as Category <b>B</b>
Vibration	8.0	Equipment tested to Category S, Figure 8.2 Curve <b>Y [SYL]</b>
Explosion-proofness	9.0	Equipment identified as Category X
Waterproofness	10.0	Equipment identified as Category X
Fluids susceptibility	11.0	Equipment identified as Category X
Sand and dust	12.0	Equipment identified as Category X
Fungus resistance	13.0	Equipment identified as Category X
Salt spray	14.0	Equipment identified as Category X
Magnetic effect	15.0	Equipment identified as Category X
Power input	16.0	Equipment identified as Category B
Voltage spike	17.0	Equipment identified as Category B
Audio frequency conducted	18.0	Equipment identified as Category B
Susceptibility - power inputs		
Induced signal susceptibility	19.0	Equipment identified as Category B
Radio frequency susceptibility (Radiated and conducted)	20.0	Equipment identified as Category <b>T</b> <b>for conducted and radiated susceptibility and for pulse test [TTT]</b>
Emission of radio frequency energy	21.0	Equipment identified as Category M
Lightning induced transient susceptibility	22.0	Equipment identified as Category XXXX
Lightning direct effects	23.0	Equipment identified as Category X
Icing	24.0	Equipment identified as Category X
Electrostatic discharge	25.0	Equipment identified as Category A