



## GSM 4000 – Declaration of Conformity



Document Number: 112300-903-08/03

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## Certification Declaration referring ISO 7137 / RTCA DO-160G

Manufacturer: SOMAG AG Jena  
Am Zementwerk 8  
07745 Jena  
Germany

Description of the machine: GSM 4000 – Gyro Stabilization Mount  
Serial number:

We SOMAG AG Jena declare that the above-mentioned device fulfills the following standards:

**Operating Temperature:**

Per ISO 7137/RTCA DO-160G Section 5 / Ground Survival Low Temperature and Operational Low Temperature Test / Ground Survival High Temperature and Operational High Temperature Test. The system is capable of operating at all cabin temperatures over the range of -15°C to +55°C.

**Humidity:**

Per ISO 7137/RTCA DO-160G Section 6 / 95% RH at 38°C and 50°C for 24 hours (2 cycles). The system maintains performance after being exposed to the humid environmental conditions.

**Crash Safety:**

Per ISO 7137 (RTCA-DO160G) Section 7, Operational Shock Test. The system maintains mechanical integrity during exposure to loading of 6G for 11 msec in all axes (6 directions).

→ refer to document "112300\_906\_08\_XX\_StrenghtAnalysis\_GSM4000.pdf"

**Vibration:**

Per ISO 7137/RTCA DO-160G Section 8, Standard Random Vibration Test Curves for Equipment in Fixed Wing Aircraft / C / 2.17 G<sub>rms</sub>. The system is capable to withstand the random vibration test powered up in any orientation and works properly after being exposed to it.

**Emission of Radio Frequency Energy / Electrostatic Discharge:**

Per ISO 7137/RTCA DO-160G Section 21 / 25 → refer to document:  
"2014\_11\_13\_EMC\_Test\_GSM\_4000.pdf"

**Fire / Flammability:**

Per ISO 7137/RTCA DO-160G Section 26 → Category C

The system is capable of meeting all performance specifications during or after (as applicable) exposure to the following environments. Such exposure does not result in system damage or shortened useful life (except of Section 7 / Crash Safety).

This declaration is no longer valid if the machine is modified without our consent.

Authorized Person for the technical documentation: Mr. Andreas Steps

Jena,

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Location and date

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Andreas Steps / CEO



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## EC - Declaration of Conformity

In accordance with the directive 2006/42/EC on Machinery of May 17, 2006 annex II A

We hereby certify that the following described machine in its conception, design and form put by us into circulation in accordance with all the relevant essential health and safety requirements of the directive 2006/42/EC on Machinery as amended and the national laws and regulations adopting this directive.

This declaration is no longer valid if the machine is modified without our consent.

Manufacturer:                      SOMAG AG Jena  
    Am Zementwerk 8  
    07745 Jena  
    Germany

Description of the machine:      GSM 4000 – Gyro Stabilization Mount

Serial number:

The agreement with further valid guidelines / regulations following for the product is explained:

- Directive 2004/108/EC on the approximation of the laws of the member states relating to electromagnetic compatibility of December 15, 2004
- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment of June 8, 2011

Applied harmonized standards in particular:

- EN ISO 12100              Safety of Machinery
- EN 61000-6-2            Electromagnetic Compatibility (EMC)
- EN 55011                 Radio Interference Suppression

Authorized person for the technical documentation: Mr. Andreas Steps

Jena,

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Location and date

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Andreas Steps / CEO