

## EC Declaration of Suitability for Use

### Name and Address of the Manufacturer or Air Navigation Service Provider

(if the latter is the manufacturer)

RHOTHETA Elektronik GmbH  
Dr.-Ingeborg-Haeckel-Str. 2  
82418 Murnau  
Germany

### Constituent / Scope

RTA 1300.A (Revision [Rev 3.01.00] and above)  
Antenna unit of the VHF Compact Direction Finder  
RHOTHETA RT-1000 A, RT-1000 C and RT-1000  
Multichannel

### System Allocation

Navigation Systems and Procedures

## 1. Common Information relating to the Constituent

### 1.1 Regulation Reference Number

Relevant Provisions of:

- Regulation (EC) No 552/2004 on the Interoperability of the European Air Traffic Management Network
- Directive 2014/53/EU on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC, to be implemented in national German law by the "Gesetz über die Bereitstellung von Funkanlagen auf dem Markt" (Funkanlagengesetz – FuAG), replacing the "Gesetz über Funkanlagen und Telekommunikationsendeinrichtungen" (FTEG)

### 1.2 Manufacturer Information

RHOTHETA Elektronik GmbH, Dr.-Ingeborg-Haeckel-Str. 2, 82418 Murnau, Germany

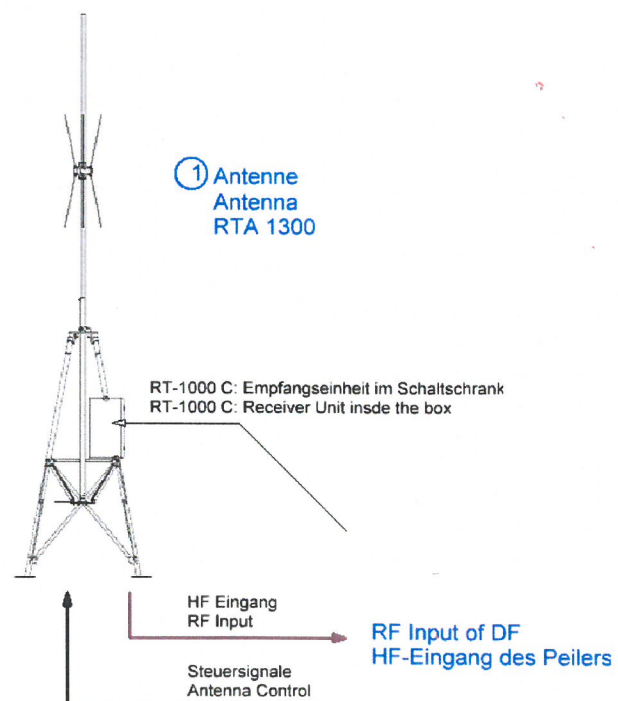
### 1.3 Description of the Constituent

Antenna unit of the VHF Compact Direction Finder RHOTHETA RT-1000 A and RT-1000 C for the frequency range 118,000 – 136,975 MHz and 156,000 – 174,000 MHz:

The antenna unit consists of 4 dipoles arranged in a circle, which are tapped circumferentially and by this modulating the received RF signal with a Doppler modulation. The phase shift of the Doppler modulation, relative to the control signal, allows calculating the angle of incidence of the received wave field.

The antenna unit provides a coaxial interface for the RF signal and an interface for the 4 control signals to switch die taps.

Conditions and Limits of use:  
Temperature Range -40°C to +80°C.



**1.4 Description of the Procedure followed in order to declare Conformity or Suitability for Use**

- Conformity assessment procedure according to Annex II of Directive 2014/53/EU on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC
- Conformity assessment according to the Regulation (EC) No 552/2004 on the Interoperability of the European Air Traffic Management Network

**1.5 Relevant Provisions**

Following harmonised standards are applied according to Directive 2014/53/EU on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC:

**Health & Safety**

EN 60950-1:2006 + A11:2009 + A1:2010 +  
A12:2011 + AC:2011 + A2:2013

Other standards applied to development and qualification of the RTA 1300.A are:

- National German authorisation rule "Bekanntmachung über die Anforderungen zur Musterzulassung von Funkpeilanlagen im Frequenzbereich 117,975 – 137 MHz", publicized in NfL II 43/03 (DFS)
- DIN EN 60068 Series environmental testing standards

**1.6 Notified Bodies**

---

**1.7 Reference to the Community Specifications**

---

**1.8 Identification of the Signatory**

Dipl.-Ing. (FH) Wolfgang Pichl, Managing Director RHOTHETA Elektronik GmbH

**2. Declaration**

***RHOTHETA Elektronik GmbH, 82418 Murnau, Germany, hereby declares that the constituent described above was considered with regard to its suitability for use within the air traffic management environment.***

Murnau, 2017-04-04

**Authorised Representative**

b.o.  
Wolfgang Pichl

