

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" (Funkanlagen-gesetz – FuAG), replacing the "Gesetz über Funkanlagen und Telekommunikations-einrichtungen" (FTEG)

1.2 Manufacturer Information

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

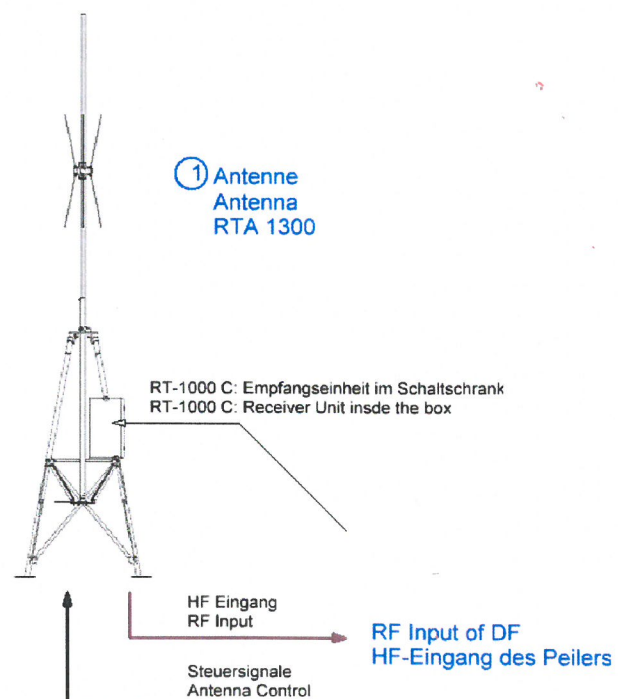
1.3 Description of the Constituent

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 the 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

