

EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

Radio Equipment Directive (RED) 2014/53/EU

PHOENIX TESTLAB
Notified Body Number **0700**



This is to certify that:

PHOENIX TESTLAB did undertake the relevant type examination procedures for the radio equipment identified below which was found to be in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU subject to any conditions in the annex attached hereto.

Certificate No.	21-110018
Manufacturer	HELZEL Messtechnik GmbH
Address	Carl-Benz-Str. 9 24568 Kaltenkirchen, Germany
Product Description	Ocean Radar
Brand Name / Model Name	HELZEL / WERA

The radio equipment meets the following essential requirements

Article 3.1 a): Health	Not assessed
Article 3.1 b): Electromagnetic Compatibility	Conform
Article 3.2: Effective and Efficient Use of Radio Spectrum	Conform
Article 3.3: Additional Essential Requirements	Not applicable

Date of issue:	2021-04-28	Expiry date:	2026-04-27
----------------	------------	--------------	------------

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached annex are complied with. The conditions for the validity of this certificate are listed in the Annex.

The attached Annex forms part of this certificate. This certificate consists of 3 pages.



Signed by Klaus Knörig
Notified Body

Annex

Technical description

Frequency Ranges	5.250 MHz to 5.275 MHz 9.305 MHz to 9.355 MHz 13.450 MHz to 13.550 MHz 16.100 MHz to 16.200 MHz 24.450 MHz to 24.600 MHz 26.200 MHz to 26.350 MHz 39.000 MHz to 39.500 MHz
Transmit Power	44.7 dBm conducted at antenna port
Hardware Versions	User interface PC N/A Frequency control rack V4.4 Receiver rack V3.17 Receiver input filter RIN-2014-421 V12.0 Receiver input filter RIN-2014-422 V12.0 Power amplifier rack V1.6
Firmware Version	V3.3.2

System Components

User interface PC
Frequency control rack
Receiver rack
Receiver input filter
Power amplifier rack

Approval documentation

Technical Documentation	External / Internal Photos, Block Diagram, Circuit Diagram, Tune-up Instructions
Installation Manual	Quick Installation Guide




Applied Standards and Test Reports

Specification	Laboratory	Test Report Number / Version
ETSI EN 301 489-1 V2.2.3 (2019-11) EN 61000-6-2:2019	PHOENIX TESTLAB	F202110E2, 2021-04-07
Rec. ITU-R M.1874-1 (02/2013) ERC Rec. 74-01 (29 May 2019) ETSI EN 300 220-1 V3.1.1 (2017-02) ETSI EN 300 330 V2.1.1 (2017-02)	PHOENIX TESTLAB	F202110E1, 2021-04-08

Limitations / Restrictions

Operation only in air conditioned rooms +10°C to +30°C.

Notes

1. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with PHOENIX TESTLAB.
2. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/them being placed on the market.
3. The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured radio equipment with the approved type described in the EU-type examination certificate and with the requirements of Directive 2014/53/EU that apply to it.
4.  The manufacturer shall affix the CE marking to each item of radio equipment that is in conformity with the type described in the EU-type examination certificate and satisfies the applicable requirements of the Directive.
5. The manufacturer shall draw up a written EU declaration of conformity for each radio equipment type and keep it at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market. The EU declaration of conformity shall identify the radio equipment type for which it has been drawn up. A copy of the EU declaration of conformity shall be made available to the relevant authorities upon request.