

Manufacturer's Declaration

About: Electromagnetic radiation acc. 1999/519/EC of 12. July 1999

For: Level-Radar OPTIWAVE 7300C

Herewith we

KROHNE S.A.S.
Les Ors
BP 98
26103 ROMANS Cedex

declare by our own responsibility the following:

The level measuring instrument OPTIWAVE 7300C is intended for installation in closed metallic tanks using the frequency band 24GHz - 26GHz.

The level measuring instrument OPTIWAVE 7300C is intended for operation outside metallic tanks using the ISM frequency band 24,00GHz - 24,25GHz.

It meets the requirements of the R&TTE (Radio Equipment and Telecommunications Terminal Equipment) Directive 1999/05/EC for use in the member countries of the EU and therefore it meets the requirements according article 3 of the Directive of the protection of the health of the user and any other person.

In Compliance with Recommendation 1999/519/EC of the council of the European Union the reference levels are:

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (µT)	Equivalent plane wave power density S_{eq} (W/m ²)
2-300GHz	61	0,16	0,20	10

Table 1: Reference levels acc. 1999/519/EC

OPTIWAVE values

The value of the microwave output power is typically -8 dBm, highest -6 dBm (0,25mW).

Antenna type	E-field strength (V/m)	H-field strength (A/m)	B-field (μ T)	Equivalent plane wave power density S_{eq} (W/m^2)
Antenna 80mm	4,3	0,011	0,014	0,05
Antenna 40mm	8,7	0,023	0,029	0,2
Without Antenna	42	0,11	0,14	4,7

Table 2: Transmitted levels of OPTIWAVE 7300C

Assessment of the risk posed by OPTIWAVE microwave devices

For all standard antenna sizes, and where the device is used without an antenna having been mounted i.e. directly at the opening of the hollow conductor feed through or at the end of an antenna extension, the transmitted values of an OPTIWAVE 7300C device are lower than the reference values given in 1999/519/EC.

According to current scientific knowledge, it is impossible for humans to be put at risk by the antenna radiation of a OPTIWAVE 7300C device. However, people should avoid remaining in direct proximity to the open hollow conductor for extended periods. Persons with pacemakers should consult the pacemaker manufacturer for its opinion.

KROHNE S.A.S.


Dr. Florian Stengele
(General Manager LEVEL Division)