

Title:	Manufacturer Certification	
Project:	WERA	

We, Helzel Messtechnik GmbH, the manufacturer of the Remote Ocean Sensing System WERA, give the guarantee that our system is designed to operate in a extremely low noise generation mode. This operation mode results in the effect that no “normal” radio band user will be disturbed by our system. The main features are:

- FMcw operation mode without any pulsing or gating sequences resulting in no out of band radiation.
- Very slow sweep mode (0.3 sec) that no normal FM receiver can demodulate.
- Very low transmitted rf power (30 Watts), directed towards the sea.
- Listen before Talk mode: Automatic pre-scan operation that scans the whole frequency band first to select a “free gap” within the allocated band before starting the next sweep sequence (typically once per 5 minutes).
- An automatic bandwidth adaptation will reduce the normally used sweep width (100 kHz) if the “free gap” is not wide enough for the preferred bandwidth.

If for any reason our system interferes with any other radio band user, the system is remote controlled and can be reconfigured or even turned off immediately.

Kaltenkirchen, 20th of March 2006

HELZEL Messtechnik GmbH

Matthias Kniephoff
(President)

Thomas Helzel
(President)

Document:	Manufacturer Certificat.e.doc	20/03/2006
Attachment:	FMcw Radar Info “WERA”	Page 1 of 1