



# INVELCO, S.A.

INVESTIGACIONES ELECTRONICAS Y COMUNICACIONES

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## 1KW NAVTEX TRANSMITTER (490/518 KHz) HIGH EFFICIENCY (AMPLIFIER TYPE D) MODEL EM-710-X

*Complete solid state. Built with modular technique for an easy repairing.*

*Amplifying technology of Class D for a high performance and low consumption.*

*Appropriate for use in Navtex communications.*

**Navtex transmitter  
490/518 KHz**

**Remote control of 1 - 16  
transmitters from a PC**

**Spanish design and  
manufacturing**

**Operation frequency  
490/518 KHz**

**Operation power  
1000W**

**NAVTEX communications**

**Remote control through  
Ethernet or RS-232-C**

**SWR tolerance: infinite**

**High performance  
type D amplification**



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**NAVTEX**

**490 KHz  
to 518 kHz**

**1 KW**

**Ethernet  
or RS232C**

**TECHNICAL CHARACTERISTICS**

**GENERAL SPECIFICATIONS**

Solid state.	
High performance.	
Power	1000W ±1dB.
Remote Control	Ethernet or RS-232-C.

**ELECTRICAL SPECIFICATIONS**

Operation frequency	490/518 KHz.
Frequency Stability	0.5ppm.
Output power	1000W ±1dB.
Power regulation	WT; W/2; W/4; W/10.
Harmonics	Less than -55dB.
Out of band spurious	Less than -55dB.
ROE Tolerance	Infinite. (*)
Output impedance	50 Ω.
Antenna connector type	N.
Transmission type	F1B.
Modulation speed	100 bauds
Deviation	±85 Hz.
Modulation inputs	Data input. Line 600 Ω.
Antenna tuning unit control	

(\*) Factory limited ROE ≤4

**POWER SUPPLY SPECIFICATIONS**

Power Supply	220VAC. ±20%.
Frequency	50/60 Hz.
Used power in transmission	1.5Kw.
Optional:	
Three-phased power supply	±20%. 220 Vac. 380 Vac. 440 Vac.
Frequency	50/60 Hz.

**MECHANICAL SPECIFICATIONS**

Width	470 mm.
Depth	430 mm.
Height	210 mm.

**ENVIRONMENTAL SPECIFICATIONS**

Operation temperature	-10 a 60°C.
Storage temperature	-30 a 80°C.
Humidity	90%.

