INVELCO, S.A.

INVESTIGACIONES ELECTRONICAS Y COMUNICACIONES

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NAVTEX REMOTE CONTROL
MODEL GX-400-A

- Fulfills the standards ITU-R M.540-2, ITU-R M.476-5, ITU-R M.625-3 and the Navtex Manual edition 2012 published by the IMO.
- Automatic/manual management of transmissions in 490 / 518 / 4209.5 KHz frequencies.
- Adjustable audio output level from -20 dbm to +5 dbm.
- AFSK modulation type.
- Automatic management of transmitter selection of Frequency/RF Power Level /antenna 490 / 518 / 4209.5 KHz .
- Automatic management of pass to transmission (PTT).
- Manual management of Main/Reserve transmitter selection.
- UPS supervision.
- 2U 19” chassis.

Made In Spain

The GX-400-A is the autonomous unit for the automatic/manual management of Navtex transmissions in 490 / 518 / 4209.5 KHz international frequencies.

This unit is located in the transmission centre and will be remotely run by the Navtex operation program in control centre that will conveniently update the information for the Navtex automatic/manual broadcast transmissions.

Automatic or manual managing of Navtex transmissions

NAVTEX REMOTE CONTROL MODEL GX-400-A

TECHNICAL CHARACTERISTICS

The GX-400-A is the autonomous unit for the automatic/manual management of NAVTEX transmissions in 490 / 518 / 4209.5 KHz international frequencies.

This unit is located in the transmission centre and will be managed remotely by the Navtex Operation Program in Control Centre that will conveniently update the information for the Navtex automatic/ manual broadcast transmissions by means of communications channel type iIP net (Ethernet) with support in networks as Frame Relay, ADSL, DSL, RDSI, GPRS/UMTS, Analogical Dedicated Line, etc. May be defined channels 1 to 3 concurrent and automatic communication channels, which will establish a redundant communication with the unit.

The unit can manage and supervise an INVELCO's transmitter unit (EM-700-X or EM-525-X model series), so it allows to automatically establishing transmission in the three standardized frequencies and RF power level programmed, with a single transmitter It allows the use of fixed transmitters with no remote control (stand alone).

The unit can be set to manually manage a configuration of the main/reserve transmitter by an auxiliary unit CN-512-A, CN-520-A or CN-530-A.

The unit has the capacity of monitoring the NAVTEX transmissions by means of an additional use of a NAVTEX receiver.

Its functional structure is based on the use of a SBC (Single Board Computer) in a 19" - 2U chassis together with the software program, unattended, Navtex Remote Control.

NAVTEX CONTROL CHARACTERISTICS

Fulfills the standards ITU-R M.540-2, ITU-R M.476-5, ITU -R M.625-3 and the NAVTEX Manual edition 2012 published by the IMO.

600 Ohms output impedance balanced audio.

Adjustable audio output level: -20 dBm to +5 dBm.

AFSK modulation type 1700 Hz. ±85 Hz.

Frequency error: ±0.5 Hz.

Automatic management (I/O) of the Pass to Transmission (PTT).

Automatic management (RS-232) RF Power Level of the transmitter.

Automatic management of frequency transmitter (RS-232) and antenna (I/O) 490/518/4209.5 KHz selection .

Manual management (I/O) of Main/Reserve transmitter selection.

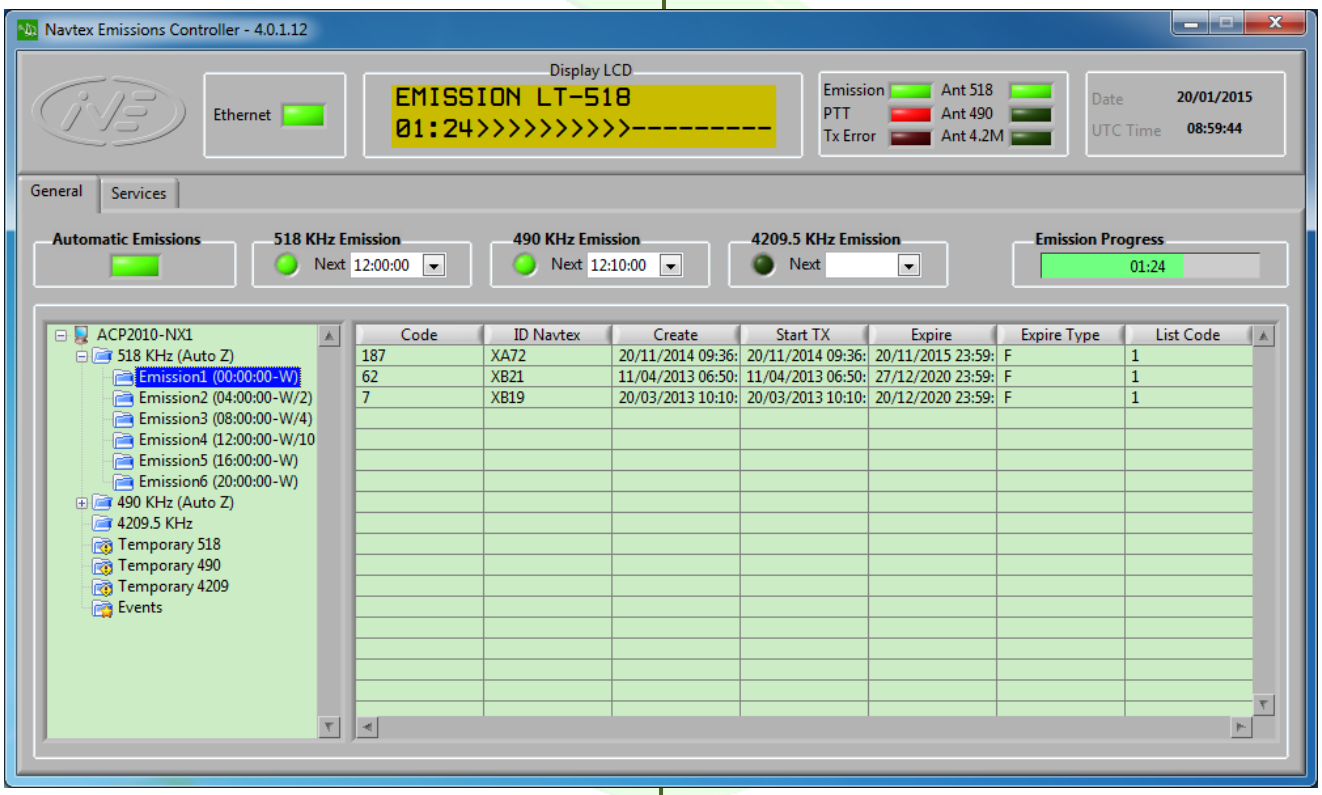
Internal database storage of information needed to automatically perform scheduled broadcasts

UPS supervision

Monitoring of transmissions by means of an additional use of a NAVTEX receiver with NMEA communication (IEC 61162-1 and IEC 61097-6).

Relay output contacts to GND (Max. 0.25 A , 250 Vac; 0.5 A, 30 Vcc.

Isolated (optocoupled) digital inputs (Max. 50 mA, 24 Vcc, 70 mW).



NAVTEX REMOTE CONTROL MODEL GX-400-A

TECHNICAL CHARACTERISTICS

GENERAL CHARACTERISTICS

Chassis 2U 19''.

Intel® Core i7 / i5 / i3 / Pentium processor.

2 internal ventilators, CPU and chassis.

Max. Capacity 32 GB DDR3 1066/1333

2 PSP ports, keyboard, mouse.

Video output with VGA + DVI.

2 10/100/1000 base T Ethernet ports.

2 RS-232 serial ports.

1 RS-422 serial port (NMEA Receiver Nx).

4 USB 2.0 ports.

2 (Mic-in, Line-out) soundcard

4 Slots PCI (rev 2.2).

2.5'' 1/0, 3.5" 1/2 SAS/SATA HDD.

Internal power supply. Auto-ranging 90-265Vac, 47-63Hz, 300W/400W ATX PFC power supply

Operating Temperatures range: 0 to 40°C (32 to 104º F).

Operating Humidity: 10 to 85% 40ºC, non-condensing.

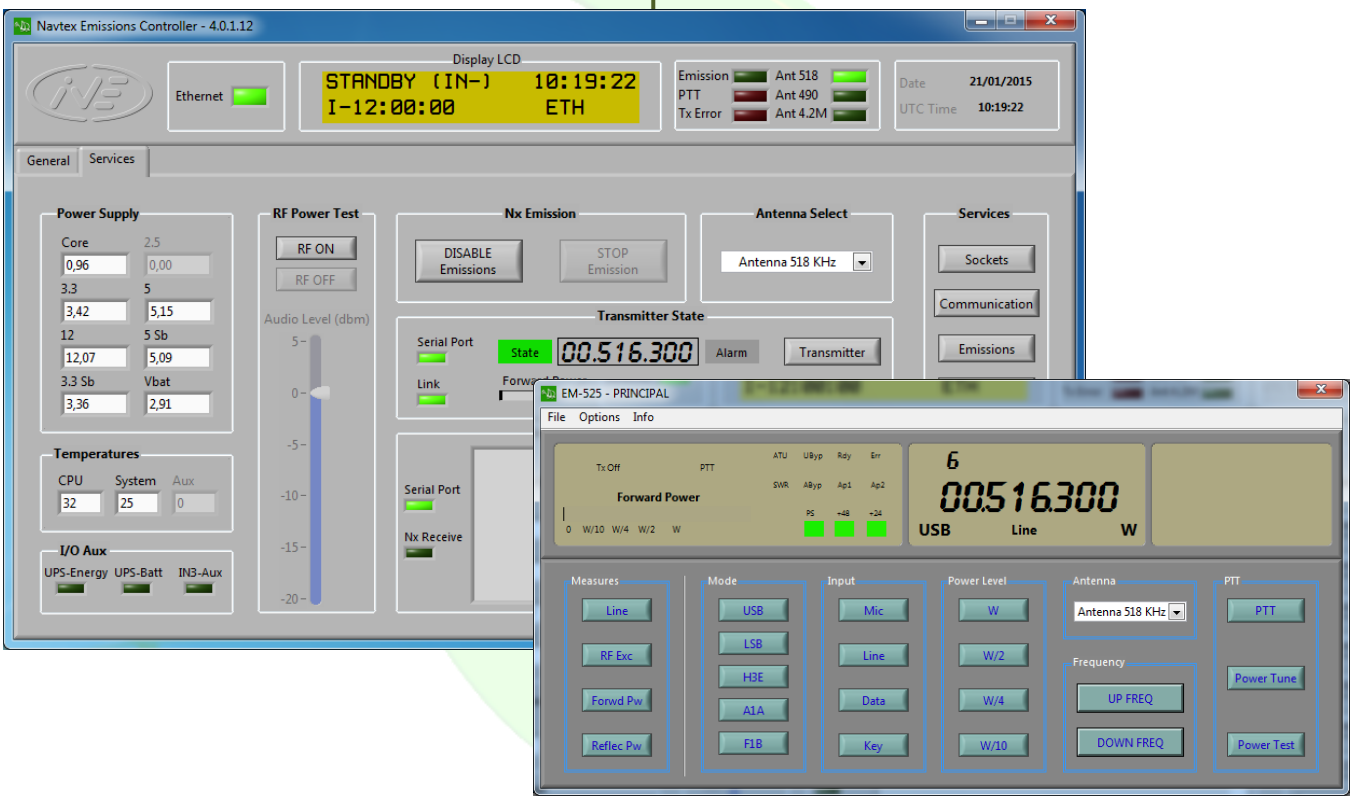
Width: 19" (482 mm)

Height: 3.46" (88 mm)

Depth : 18.9" (480 mm)

Weight : 10.7 kg (23.5 lb). / 11.7 kg (25.7 lb)

Operating System: Windows 7 Pro SP1 x86



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