

MX 420 Navigation System

@ P0S 1

POSITION

4°56.8614

Datum: W6S-8

006 250° 506 7.6

°58.9876

Navigation System combines the very latest achievements in both GPS and **Beacon Receiver** Technology, building on generations of groundbreaking product. The combination of the MX420 Control & Display unit with the MX421 or MX421B Smart Antenna enables you to create a flexible system to meet any demands.

The New MX420

The MX420/2 with the MX421 GPS Smart Antenna

Leica

is an attractively priced typeapproved Commercial Marine Navigator with accuracy better than 3 meters!

When using the MX421B DGPS Smart Antenna you gain the Integrity Monitoring features of the Marine Beacon System and your quality assured accuracy will be better than 1 meter.

The MX420/8 is the smartest and most versatile GPS Navigation System in the world today. It offers extraordinary capabilities with its eight serial ports connected to ECDIS, ARPA, Gyro and other information systems. It can be configured as a single or as a dual redundant system, and is easily upgraded to provide fully compliant AIS functionality.

MX420 Smart, Accurate, Affordable, And Upgradeable.

General Features

Position Presentation:

Position Resolution:

Waypoints:

Routes:

Special Features:

Display:

Dual Control:

Languages:

Power

Input Voltage: Grounding:

Physical

Dimensions: Mounting:

Lat/Lon, UTM and Loran-C. Option for user defined Datum and Grid

4 decimal places (Lat/Lon)

2000 waypoints with 20 character alphanumeric names and icons

100 routes with a dynamic number of waypoints; up to 2000 in all routes

Tide program, Speed Graph, Sun & Moon Almanac, Wind Calculations, GOTO Feature Mark, and MOB feature 3-D Panorama Display

True sunlight readable 240 x 128 pixel back-lit, B/W LCD display

MX420/BR, Dual Head System: Master is MX420/8; Slave is either MX420/2 or MX420/8.

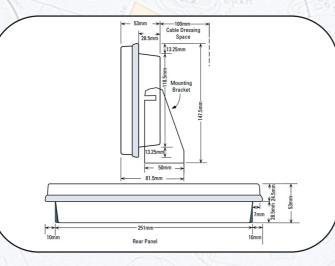
MX420BRIM, Dual Head - Integrity Monitor System: Two complete

systems (MX420/8 with MX421B), operating in dual station mode. If the current Master shows degraded performance the software automatically selects the other unit as the new Master.

Danish, Dutch, English, French, Finish, German, Italian, Spanish, Swedish.

10.5 to 32 VDC, 10 watts Chassis isolated from electrical around

271 x 145 x 53 mm. (W.H.D) Yoke and flush mounts included



Denmark Tel: +45 44 54 03 00 Fax: +45 44 54 03 30 Singapore Tel: +65 776 9318 Fax: +65 774 7145 USA 23868 Hawthorne Blvd., Torrance, CA 90505-5908 Tel: (310) 791-5300 Fax: (310) 791-6108 www.leica-geosystems.com

Electrical Interface

MX420/2 has 2 and the Ports: MX420/8 has 8 bi-directional NMEA 0183 ver.2.2 ports. One can be configured as RS232 port. There are two additional ports for the connection of the MX421 or MX421B Smart Antenna. **NMEA Input:** DPT, DBS , DBT, DBK, GLL, HCC, HDM, HDT, MMB, MWV, RMA, RMC, VHW, VTG, VWR, WPL, XDR. **NMEA** Output: APA, APB, BOD, BWC, BWR, GGA, GLL, GRS, GSA, GSV, HSC, MSK, MSS, RMB, RMC, R01, RTE, SNU, VDR, VHW, VPW, VTG, WCV, WPL, XTE, ZDA, ZTG. 1 - 30,000 pulse per NM Pulse Log Emulation: Field programmable flash ROM

Reprogramming:

Connectors

MX420/2 has one, and MX420/8 three (Liang-Tei) eighteen pin connectors for interface and power. Interface cables are two meters and are unterminated.

Splash Proof

Environmental

Temperature:
Operating:
Storage:
Humidity:

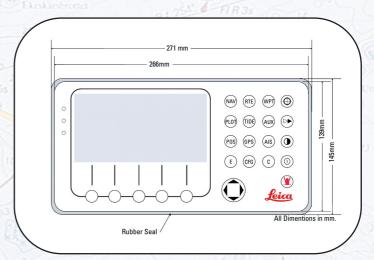
-15° to +55° C -30° to +70° C MIL-STD 810E, 100% for 30 days at 24° C

Water Resistance:

Applicable Specifications: IEC 945 (ver 3), FTZ, FCC, EN55022 (class B), EN50081-1 and EN50082-1, CE-mark, Wheelmark.

GPS - DGPS Receiver

The MX420/2 and MX420/8 connect to the MX421 and MX421B Smart Antennas



Wheelmark Approved

Total Quality Mana Our commitment to total customer satisfaction

5/01

S