

# 3710 DGNSS RECEIVER



KONGSBERG



## DGNSS RECEIVER

The 3710 DGNSS Receiver is a high-performance DGNSS receiver capable of receiving augmentation data from the Fugro Satellite Positioning worldwide DGNSS Service. The Fugro service is a full-time differential GNSS (DGNSS) broadcast system delivering differential corrections from an array of GNSS reference stations located around the globe. These services include independent sub-decimetre level services (Fugro Seastar G4/G2 and Fugro Seastar XP2), centimetre level services (Fugro Seastar G2+/G4+) and sub-metre level services (Fugro Seastar StdL1).

### **Enhanced availability**

The 3710 DGNSS Receiver gives the user an unmatched availability in challenging environments where the use of differential corrections is vital for an efficient operation. The 3710 DGNSS Receiver offers reception from both internet and satellites simultaneously. It has the unique capability of simultaneously receiving and outputting data from up to three sources (two satellite links and one internet link). The signals are received via the DGNSS antenna and by internet. After selection of the desired broadcast source, the signals are made available as corrections for use in a GNSS differential capable receiver.

### **DGNSS processing**

The 3710 DGNSS Receiver comprises a software defined radio (SDR) signal processing core with advanced algorithms and true parallel processing of up to two DGNSS satellite signals and one DGNSS Ethernet signal (NTRIP format) simultaneously. DGNSS corrections from different sources are combined by the unique multiplexing capability.

## FEATURES

- Fugro Seastar™ XP/XP2/G2/G2+/G4/G4+/StdL1 capability
- Configurable output for external interfaces
- Integrated 2-line LCD display and keypad for system-configuration and status
- Easy software updates via USB
- Ethernet interface
- Serial interface



## TECHNICAL SPECIFICATIONS

### 3710 DGNS RECEIVER

#### WEIGHTS AND DIMENSIONS

##### Receiver Unit

H x W x D 44 x 485 x 350 mm (1U)  
Weight 3.0 kg

##### DGNS antenna

H x D 96 x 150 mm  
Weight 1.4 kg  
Connector type N-female

#### POWER

##### Receiver Unit

Voltage 100 to 240 V AC 50/60 Hz  
Power consumption Max 25 W  
DGNS antenna 12 V DC from Receiver Unit

#### EXTERNAL INTERFACES

Serial port 1 serial port, RS-232 or RS-422  
Baud rate 115 200 bytes/sec  
Ethernet/LAN 1  
USB 1

#### DATA OUTPUTS

Message format Multiplexed (MUX) correction format  
Message type Multiplexed correction data output with status

#### RADIO FREQUENCIES

DGNS antenna 1525 to 1559 MHz

#### ENVIRONMENTAL SPECIFICATIONS

##### Receiver Unit

Enclosure material Aluminium  
Operating temperature -15 °C to +55 °C  
Storage temperature -20 °C to +70 °C  
Operating humidity Max. 95 % non-condensing

Storage humidity Less than 55 %  
Ingress protection front IP 42  
Ingress protection rear/side IP 22

##### DGNS antenna

Enclosure material Polyurethane coated fibreglass  
Operating temperature -30 °C to +70 °C

#### Mechanical

Vibration IEC 60945/EN 60945

#### Electromagnetic compatibility

Compliance to EMC, immunity/emission IEC 60945/EN 60945

#### PRODUCT SAFETY

Compliance to LVD IEC 60950-1/EN 60950-1

Specifications subject to change without any further notice.

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