

GlobalWatch™ UAIS

Universal Automatic Identification System
Product No. 2600

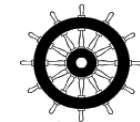


Class A - SOLAS Transponder:
XS in size and XL in functions
Most compact AIS-System
All-In-One Unit
Best Value

The GlobalWatch™ Transponder fully complies with the IMO technical specifications for the Universal Automatic Identification System (AIS) Transponder.

The GlobalWatch™ Transponder is specifically designed for all commercial vessels which are subject to the SOLAS regulations. The GlobalWatch™ Transponder makes a significant contribution to increasing safety at sea.

ACR Electronics, Inc. is registered
by UL ISO 9001:2000



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A Chelton Group Company



PHYSICAL	
Size (w)	7.9 in. / 20 cm
Size (h)	11 in. / 28 cm
Size (d)	2.4 in. / 6 cm
Weight	5.5 lbs./2.49 kg
Operating Temperature (Celsius)	-15° to +55°
(Fahrenheit)	+5° to +131°
POWER SUPPLY	
Supply Voltage (minus is chassis ground)	24 V DC (-10% +30%)
Input Current	max. 5 A (24V)
INTERFACES	
Number of Data Ports	3 Input / 4 I-O / 1 Output
IEC 61162-1/2	(RS422 / NMEA 0183)
ITU-R M.823-2	(RS422 / RTCM SC104)
Bitrate	4800 bps / 38400 bps
Sensor	(Input; e.g.: GPS)
Sensor	(Input; e.g.: GYRO)
Sensor	(Input; e.g.: HDG)
Pilot Port (In- / Output)	AIS targets, AIS messages
ECDIS Port (In- / Output)	AIS targets, AIS messages
Long Range Port (In- / Output)	
BUILT IN GPS	
Receiver Architecture	12 channel differential
Tracking Capability	12 satellites sim.
Accuracy Horizontal	10m (2drms) *
Accuracy Vertical	15m (2drms) *
GPS Antenna Connector	TNC
GPS Solutions	
Beacon interoperability	
EGNOS interoperability	
WAAS interoperability	
OMNISTAR interoperability	
LongWave interoperability	
VHF interop.	
OPTIONAL INTERFACES	
Number of Data Ports RS232	up to 5
Bitrate	Up to 115000 bps
Simplex / Duplex	Duplex
Number of Data Ports IEC 61162-3 CAN (RS485)	1
Bitrate	up to 1 Mbps
KEYBOARD	
Integrated	alphanumeric
DISPLAY	
Integrated	graphical 240 x 128 adjustable brightness and contrast

SPECIFIED STANDARDS	
IMO MSC.74(69) Annex 3	
ITU-R M.1371 (Class A)	
IALA Techn.Clar. of ITU-R M.1371-1 (Ed.1.3)	
IEC 61993-2 (2002)	
IEC 61162-1 (2000)	NMEA 0183-3
IEC 61162-2 (1998)	NMEA 0183-3
IEC 61162-3	NMEA 2000
ITU-R M.823-2	
IEC 61108-1 (1996)	
IEC 60 945 (1996)	
ITU-R M.825-3	
ITU-R M.1084-3	
VHF	
Frequency Range	156 MHz - 162MHz
Channel Spacing	12.5 or 25kHz
Number of RF Channels	3 Receiv. / 1 Transm.
Number of AIS Receivers	2
Number of DSC Receivers	1
Frequency Error	+/- 2.5ppm
VHF TRANSMITTER	
Output Power	2 Watt to 12.5 Watt (adjustable)
Receive to Transmit Switching Time	< 1ms
Transmit release time	< 1ms
Automatic shutdown	1 sec.
Channel switching time	< 25ms
Attack Time	< 1ms
VHF RECEIVER	
Max. Useable Sensitivity	< -110dBm
Co-channel Rejection	> -8dB (25kHz); > -12dBm (12.5kHz)
Adjacent Channel Selectivity	> 70dB (25kHz); > 60dB (12.5kHz)
Inter-modulation Rejection	> 65dB
Spurious Response Rejection	> 70dB
Blocking	> 84dB
VHF MODEM	
Bit rate GMSK	9600 bps
RF Baud Rate (DSC)	1200bps
Modulation	GMSK / FSK
SOFTWARE	
GlobalWatch™ version 2.0.x	
- installed and ready for use	
- implemented configuration Software	
- User friendly Interface to System and AIS Information	
- additional Interface to System Conf guration (Windows 2000®)	
- GlobalWatch™ Demonstrator for training purposes (Windows 2000®)	
HARDWARE	
GlobalWatch™ version 1.0.x	

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GlobalWatch™ Features

► The MOB Button

The MOB Button automatically saves the precise coordinates of the incident and immediately generates a distress message to surrounding vessels. Another clever feature, which could save you the precious seconds that could mean a life.

► Size it up!

The GlobalWatch™ alluring measurements are (H) 7.9" (20 cm) x (W) 11" (28 cm) and it's only 2.4" (6 cm) deep. It's lightweight at 5.5 lbs. (2.49 kg), and will not take up precious space on your bridge, even though keyboard and display are integrated.

► Plug & Play

Inventive technology at its best! Two sockets suffice to connect power, sensors and antennas. Initial Transponder operation is up and running within minutes.

► Complimentary training software

GlobalWatch™ Training Software simulates all Transponder functions. It is especially valuable for simulating emergencies at sea and practising the handling of alarms, long range interface requests and messaging. The free software is available upon request.

Warnings:

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GlobalWatch™ UAIS

Universal Automatic Identification System Components



GlobalWatch™ UAIS includes:

Transponder, CD ROM with demo and documentation, users manual, quick start guide, installation manual, and 1 Flush Mount kit.

Interface Cables



AIS Interface Cable; Connects Transponder and Connection Box & Pilot Plug. (Choose specific length)

3 meters (9.8ft): P/N 2610

10 meters (32.8ft): P/N 2611



GPS/VHF Interface Cable - 1 meter (3.3ft); Includes 1 each Female N and TNC connectors installed and 1 each Male N and TNC connectors for RG214 cable (specify length) Not Required with P/N 2624 VHF/GPS Combi Antenna.

P/N 2612

or

GPS/VHF Interface Cable - 10 meters (32.8ft); Includes 1 each Male PL & TNC connector installed. (Not Required with P/N 2624 VHF/GPS Combi Antenna.)

P/N 2613

VHF Antenna Solutions



Glomex R109 STS VHF Stainless Steel Whip Antenna - 91.4cm (36in); Includes Mounting Kit & Plug PL Male for RG214.
P/N 2620

or

Comrod AV 7 VHF Fiberglass Antenna -1.22m(4ft); Includes Aluminum mount (Vert or Horiz. stanchion, or bulkhead) When used with P/N 2612, 1 P/N 2632 PL Male Connector & P/N 2630 Cable (specify length) are required.
P/N 2621



GPS Antenna Solutions



ProCom GPS4 Quadrifilar Helix Antenna 5 Volt. When used with P/N 2612 interface, one P/N 2633 TNC Connector & P/N 2630 cable (Specify length) are required. Mount P/N 2623 is required.

P/N 2622

ProCom FLG Deck Mounting Kit Metal Horiz. surface (for P/N 2622).

P/N 2623



VHF/GPS Combination Antenna Solutions

Comrod AC17 Combi Antenna (combined GPS/VHF) includes Aluminum mount (Vert or Horiz.. Stanchion or bulkhead) & interface cable. 2 P/N 2631 Male N connectors & P/N 2630 cable (specify length) are required. P/N 2612 or 2613 are not required with this option.

P/N 2624



Optional AIS Cable connection box

(Required for Advanced Installation with ECDIS, etc.)

Connection Box
P/N 2640

Optional VHF/GPS Antenna Cable and Plugs

(for extension to standard cable lengths, select or supply your own)



GPS/VHF RF Antenna
Cable extension cable
RG214 (No Plugs) Sold
per meter
P/N 2630



N Male RG214
Crimp
P/N 2631



PL Male RG214
Crimp
P/N 2632



TNC Male
RG214 Crimp
P/N 2633

Optional Mounting Bracket Assemblies



Drop In Frame for
Larger Openings.
48.3cm (19in)
Includes 3 Bolts and
Nuts to hold display
to bracket.
P/N 2652



Retro Fit Frame Drop
In Mount (Includes 3
screws, nuts, clips to
hold display to
bracket).
P/N 2651



Mounting Bracket
Gimbal Style (Includes
4 screws and 2
Mounting Knobs).
P/N 2650

