Two Channel AIS Receiver with S2C Technology "easyAIS_S2C"

Part No. Ao25

Manufacturer: Weatherdock AG, Am Weichselgarten 7, 91058 Erlangen, Germany

Topology:	2 Channel Receiver for AIS channels A and B
Receiver topology:	Double Superheterodyne Receiver - 1st IF: 10.7 MHz - 2nd IF: 455kHz
Reception Mode:	GMSK
Frequencies:	- AIS channel A: 161.975 MHz - AIS channel B: 162.025 MHz
Sensitivity:	-114 dBm @ BER 10^-4
Process:	parallel scan of AIS-timeslots in both AIS channels
Decoder:	- Integrated GMSK Hardware decoder - Correlation algorithms for improved decoding
Microprocessor:	- MCU with 16 bit architecture - internal clock frequency up to 40MHz
Data Interface:	 - Data Output: conforming to NMEA 0183 Version 3.01 and NMEA 0183-HS Version 1.01 standard data rate is 38400 Baud data rate can be set to 4800 Baud at power-up without opening the housing (please refer to manual) Data Input:
Power supply:	 Operating Voltage: + 9 to + 28V Operating Current: < 100mA Polarity protection Power supply is decoupled from Ship's Ground
Fuse:	built-in, self healing fuse, 200mA
Antenna Connector:	BNC, female



power socket/cable:	- socket: - pin 1: NMEA OUT (-) - pin 2: NMEA OUT (+) - pin 3: NMEA IN (-) - pin 3: NMEA IN (-) - cable: - green: NMEA OUT (-) - white: NMEA OUT (+) - black: DC Ground (Battery minus) - red: DC supply (Battery plus)
User Interface:	 LED indicator for Power ON: green LED indicator yellow for AIS telegram reception on channel A LED indicator yellow for AIS telegram reception on channel B
Temperature range:	for use under deck, o°C to 60°C
Mechanical data:	- overall size: 165 x 160 x 35 mm - weight: approx. 56ogr net, approx. 90ogr including packing
Approvals:	- CE/EN60945-2002 - FCC CFR47 part 15, sections 15.107 and 15.109 (Class B)

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Sketch:



