



**Technical Data**      **Two Channel AIS Receiver „EASY AIS”**  
**Part No.**            **5-A-013**  
**Manufacturer:**    **Weatherdock AG, Am Weichselgarten 7, 91058 Erlangen, Germany**

Receiver Topology:    Double superheterodyne receiver  
                                  1<sup>st</sup> IF 10.7MHz  
                                  2<sup>nd</sup> IF 455kHz

Reception Mode:    FSK/GMSK

Antenna Connector: BNC, 50 Ohm

Frequencies:        161.975MHz/162.025MHz

Channel Multiplex:    6.1sec, can be tailored to customers need in a wide range

Sensitivity:            -114 to -112dBm @ BER 10<sup>-4</sup>,  
                                  set to to -109dBm for AIS telegram reception, RSSI controlled

Decoder:             Integrated GMSK-decoder

Microprocessor:      8 Bit MCU, 22 MHz clock

Data Interface Driver: RS232 Line Driver/Receiver, enhanced ESD performance (+/- 15kV HBM)

Signal -In-/Output:    Input: GPS Data (optionally)  
                                  Output:  
  AIS-Data, NMEA 0183, VDM  
  GPS Data (optionally)

Data Rate:            Output: 38.4kBaud (Standard), optionally 4.8kBaud

Power Supply:        +9 to + 28V @ < 100mA

Fuse:                    External fuse necessary, 500mA, slow blow; fuse and fuse-holder included

User Interface:        Switch, Power ON/OFF  
                                  LED indicator for Power ON: green  
                                  LED indicator for AIS telegram reception: red

Connector/Cable:    RJ45 type jack, cable included

Pin 1: NMEA Data OUT, white-orange	Pin 5: Ground, white-blue
Pin 2: Ground, orange	Pin 6: not Connected, green
Pin 3: GPS Data IN, white-green	Pin 7: not Connected, white-brown
Pin 4: Ground, blue	Pin 8: +9 to + 28V DC IN, brown

Mechanics:  
Size (overall):        140 x 140 x 36 mm

Weight:                approx. 400g

Miscellaneous:      PCB conformal coated

Approval:             CE, IEC/EN60945 :2002