

STAR - PROFESSIONAL TwoWay RADIO

- FOR RESILIENT PORTABLE COMMUNICATION

TPRADIO DATASHEET



HIGHLIGHTS

- VHF & UHF
- Small size
- Easy setup / Plug & Play
- IP67 Waterproof
- CTCSS, 5-TONE, CCIR, ZVEI, EEA
- Man-down function
- 16 Channels
- PC programmable
- 15 Hours operational use
2880 mAh battery
- Voice feedback:
Channel selection / Battery
indication / Alarm Function
- High performance Audio
- special developed micro-
phone duct for low noise
speech



UHF
ON-BOARD

IP67

IEC-60945

CE

PROFESSIONAL RADIO COMMUNICATION

STAR is a unique product which combines mechanical robustness, ease of use and high performance audio into a Hand Held Radio with a user friendly design.

The Radio is IP67 waterproof and can be used as the ultimate communication tool.

As an option a range of accessories can be added - such as Speaker Microphone, Push-to-Talk units, TP Radio headsets.

Specifications:

General data:

| | VHF | UHF |
|--------------------------|----------------------------|-------------|
| Frequency band | 145-174 MHz | 400-470 MHz |
| Max. Number of channels | 16 | |
| Channel Spacing | 12,5 / 20 / 25 KHz | |
| Frequency error | ± 2 ppm | |
| Bandwidth | 29 MHz | 70 MHz |
| Operation mode | Simplex/Semi-Duplex | |
| Antenna Impedance | 50 ohm | |
| Temperature range | -20 °C to +55 °C | |
| Dimensions incl. battery | H = 137, B = 64, D = 31 mm | |
| Weight incl. battery | 310 g. | |

Receiver:

| | |
|---|----------------------------|
| 1. IF-frequency | 46,35 MHz |
| 2. IF-frequency | 450 KHz |
| Sensitivity at 20 dB SINAD (EMF) (25 KHz channel spacing) | 0,45 µV |
| at 12 dB SINAD EMF: | 0,3 µV |
| LF output power | 2 x 0,5 Watt |
| LF distortion | < 10 % |
| LF frequency response | 300 - 3000 Hz |
| Signal / noise ratio | 45 dB |
| Co-Channel attenuation | -3 dB |
| Neighbour channel selectivity | > 70 dB |
| Attenuation of Spurious | > 70 dB |
| Intermodulation selectivity | > 66 dB |
| Blocking | > 90 dB |
| Transmission of spurious (antenna & cabinet) | 2 nW equivalent to -57 dBm |
| Squelch threshold level | Programmable |

Transmitter:

| | |
|--------------------------|---------------------------|
| Output Power | Programmable 0.5 - 2 Watt |
| Transmission of spurious | < 0,25 µW or - 36 dBm |
| Antenna & cabinet | |
| Max. Deviation | ± 5 KHz / 25 KHz channel |
| Modulation distortion | < 5 % @ ± 3,0 KHz |
| Signal / noise relation | 40 dB |
| LF frequency response | 300 - 3000 Hz |

Battery:

| | |
|--|--|
| Operational time (fully charged battery & 2 W TX-output) | 5 % TX, 5 % RX & 90 % Standby 2880 mAh battery : 15 hours |
|--|--|

Signalling:

| | |
|--------------------------|---|
| CCIR, ZVEI, EEA CTCSS | En- & decoder up to 3 sequences of each 8 tones, programable tone length, length of first tone & pre-ample. Individual call, En-/ Decoder. The channels can be programmed individually with different CTCSS |
|--------------------------|---|

Accessories:



Conforms according to the Directives

RoHS 2011/65/EU, MED 2014/90/EU & RED 2014/53/EU

Applied standards

EN 62368, EN/IEC 60945, EN 301.489, EN 300.086 & EN300.720 (analog part).

Classifications

IP67 Waterproof / Exceeds MIL 810 c,d,e,f

The UHF version is type approved for On Board Communication according to EN 300 720 and fulfils the IEC 60945 marine standards.

Dealer:

 **TPRADIO**

Agenavej 37, DK - 2670 Greve

Phone: +45 43 90 60 48, Fax: +45 43 90 52 07

Mail: sales@tpradio.dk, Web: www.tpradio.dk

TP Radio reserve the right to amend specifications without prior notice.*