

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, programmable 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:

ELCA ACS srl

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.*