KRT2-TB2 VHF-AM Transceiver

The highest performance, most rugged and elegant Dittel style air band portable available today…

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The KRT2-TB2 portable is the follow-on from the old yellow Dittel FSG series. Employing the TQ-Avionics KRT2-S transceiver, this portable was developed by PJ Aviation in South Africa with higher local content, stronger, yet simplified construction, easier servicing, modern design and convenience of use. Reduction in weight without compromising strength was a major goal in the development and this was achieved with optimum use of a combination of high strength corrosion resistance alloys. Accuracy of dimensions and fits is achieved through the use of CAD/CAM in a highly automated facility in Johannesburg.

The TB2 housing has no plastic outer case. The alloy used in the outer shells and face is resistant to salt water corrosion and denting. A high quality powder coating is applied to the shells and face plates. The light grey/black colours are standard, but users placing high volume orders may choose their own.

The handle is a polished stainless steel bar with nylon grip, and a polished thin stainless steel cover clips over the face plate to provide a protected storage area for accessories during transport. This stores underneath during operation. Particular attention has been taken regarding the security of the battery during transport and rough use. Yet removal and replacement is an easy task.

Battery charging on a portable has to be optimum to provide the longest operating times in the field. Merely charging to 13,8v does not achieve a full charge and long battery life. The TB2 uses an automatic charger with a 2A constant current characteristic to 14,6v, equalizing the cells, and then dropping back to a 13,8v trickle. For world wide universal use, the mains charger is rated for 100 to 240VAC 50 or 60Hz. Mains charging status is indicated on the face plate with a bi-colour LED. To de-clutter the face plate, the mains charging socket is fitted at the bottom of the case.

External 14VDC charging sources can be connected to the current limiting external DC charging connector. The battery voltage may be read on the KRT-2 radio’s display.

The standard battery is a LiFePO4 type with internal BMS, deep discharge and short circuit protection. Compared to a sealed lead battery this battery increases the operating time significantly, recharges much faster and ensures a minimum of 6W carrier output on battery power alone (not possible with a lead type due to the lower voltage) and reduces the portable's overall weight by 20%. The battery change interval is trebled compared to a lead type. This battery is required when the KRT-2 radio is loaded with special firmware for higher carrier power.

The loudspeaker is a waterproof mylar cone type. A dynamic microphone is provided, but a speaker-microphone may be ordered instead. An extra socket can be provided for ATC recording equipment, on request. The professional model utilizes a metal tubular microphone which stows inside a tube through the face plate. Headsets with in-line PTT switches are also available.

The latest antenna is a wide band tuned helical in an ABS radome, mounted on a flexible gooseneck, allowing the TB2 to be used upright or propped up on its handle on a desk. External co-linear antennae and compact telescopic masts are available on request. Please specify length of coaxial cable required.

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Packed for transport (nylon grip not fitted)

General Features

- Size approximately 250mm high, 254mm wide and 85mm deep (excludes handle).
- Weight: Professional approximately 4,8Kg (with lithium battery), Basic 6Kg
- Construction: 2mm 5754 alloy shells, CR12 steel framework, plus stainless steel
- Finish is partial gloss powder coating
- Stainless steel locking handle will withstand 10G forces
- All screws in stainless steel.
- Internal mains charger with LED indication.
- Holmco dynamic tubular microphone.
- Tuned helical with bendable gooseneck base.
- Stainless steel transport cover supplied
- Lithium Iron Phosphate Battery with BMS, up to 2 days on a single charge

Transceiver specifications

- Frequency Range 118 to 136,975MHz in 8,33 or 25 kHz spacing
- Dual Watch allows monitoring 2 frequencies
- Transmitter rated at nominal 5 to 6w carrier
- Receiver sensitivity typically >13dB SINAD @ 2uV
- Frequency stability 1ppm per annum
- Modulation up to 90%
- Speaker output up to 5W