

COMPACT RADIO



TY91 AND TY92 VHF RADIOS

Trig's compact radio is the ideal retro-fit that can be installed in the smallest panel. The TY91 is certified and highly capable.

Easy to use and faster to tune, it takes up minimal space and weight. The unique 'Push Step' feature provides the fastest in class frequency selection.

Dual Watch allows you to monitor two channels at the same time – it's like having two radios in one. Compatibility with various EFIS systems enables remote control of the TY91 radio – it can even populate the on-route frequency from a connected GPS. A memory function provides fast frequency selection for your most used frequencies. A built-in intercom with mic gain adjustment on each headset ensures great performance, even when headsets brands don't match.

Contact your nearest Approved Trig Dealer now and benefit from our smart, affordable and future proof avionics.

FEATURES

- Compact size, low weight – takes minimal panel space, only 74mm deep
- Unique 'Push Step' feature provides the 'fastest in class' frequency selection
- Dual watch – monitor two frequencies at the same time
- Manual dimming feature (adjustable backlight)
- Dual Control – two controller option for tandem cockpits
- Simple installation
- Free European [Minor Change](#) approvals

PRODUCT FEATURES

With a crisp clear display and simple user interface the Trig radio benefits from some great features; 'Dual Watch' feature allows monitoring of two frequencies at the same time. There are 9 pre-set channel memories which are easily selectable.

Trig's compact radio is EASA ETSO and FAA TSO approved so it can be used worldwide. Our 'Push Step' feature enables the fastest tuning in its class – three times faster than in an 8.33 environment! For customers who do not require 8.33 channel spacing this feature can be disabled, allowing speedy selection between 50 kHz and 25 kHz spacing. This enables rapid change of frequency whilst providing fine tuning in 25 kHz steps if required.

Trig radios also feature a built-in high quality two place intercom with an aux-input, saving further cost and weight.

GPS COMPATIBILITY

The radio can integrate with popular GPS units; this allows the automatic display of en-route radio frequencies. Control of the radio via an EFIS display is also possible using industry standard SL40 and GTR225 protocols. This unique capability integrates your Trig radio with other avionics and provides real user flexibility.

PRODUCT DESIGN

The innovative use of a control head and separate radio hardware unit provides more installation options, especially when space is at a premium. The control head can be conveniently mounted in a full 57mm (2 1/4") round hole or even smaller compact mount. Fitting is straightforward, and once installed the depth of the radio control head is only 74mm (3"). In practice this means that the Trig compact control head can be located in an aircraft instrument panel where a 'single box' radio will simply not fit. The compact radio is the perfect comms partner to our compact transponder Mode S (1090 ES ADS-B Out transponders).

PUSH STEP

The compact radio display is clear and bright, showing both primary and secondary frequencies. A 'Push Step' knob allows the fastest change from 8.33 kHz to 25 kHz – so you can tune the radio quickly without compromising your look-out. The Dual Watch feature allows two frequencies to be monitored at the same time – it's like having two radios in one.

HEADSETS

The Trig compact radio two place intercom is optimised for use with standard aviation headsets – a number of adjustments allow the radio to be used successfully in noisy aircraft. The compact radio also has a built in speaker amplifier that can drive an external speaker, this is preferred by some glider pilots. If using a dynamic microphone with a Trig radio please note an amplified adaptor will be required.

VERSIONS

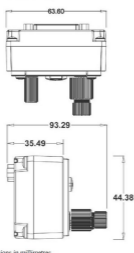
Product Model	8.33kHz capable(required in Europe)	Power Output	Supply Voltage	Options	Sales Part Number
TY91	Yes	6W	11-33V	Complete kit	01079-00
				Dual Control – The TY91 is available with two control heads for pilots flying in tandem. More information can be found on page 20 of the installation manual .	01451-00
TY92 – high power	Yes	16W	22-33V	Complete kit	01080-00
				Dual Control – The TY92 is available with two control heads for pilots flying in tandem. More information can be found on page 20 of the installation manual .	01452-00

SPECIFICATION

Specification	TY91 Radio	TY92 Radio
Type	Receiver – Class C, Class E. Transmitter – Class 4, Class 6	Receiver – Class C, Class E. Transmitter – Class 3, Class 5
Certification	ETSO-2C169a, ETSO-2C128, TSO-C169a, TSO-C128a	
Compliance	ED-23C, ED-67, DO-186B, DO-178B Level B, DO-160F, DO-254 Level C	
Supply voltage (DC)	11 – 33 V	22 – 33 V
Typical current consumption (at 14v)	(at 14V) receive: 200 mA transmit: 2A	(at 28V) receive: 130 mA transmit: 2.5A
Nominal Transmitter Power	6 Watt	16 Watt
Operating temperature	for the radio unit -40 °C to +70 °C for the controller -20 °C to +70 °C	
Cooling requirement	No fan required	
Weight	460 grams / 1.01 lbs	
Dimensions (mm)	controller: H 44 x W 63 x D 35 mm (74 mm depth in panel with D-Type connector fitted). radio unit: H 48 x W 66 x L 160 mm (inc. socket).	
Dimensions (inches)	controller: H 1.73 x W 2.48 x D 1.37 inches (Depth 3 inches with D-Type connector fitted). radio unit: H 1.88 x W 2.59 x L 6.29 inches (inc. socket)	

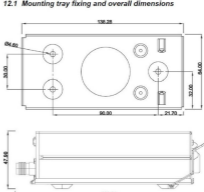
12.2 Front Panel Controller Dimensions

Controller shown without the mounting adapters (00678-00) used for 57mm (2 1/4 inch) instrument mounting.



All dimensions in millimetres.

12.1 Mounting tray fixing and overall dimensions



All dimensions in millimetres