

MFJ

SDR Transmit/Receive Switch

Model MFJ-1708SDR



INSTRUCTION MANUAL

CAUTION: Read All Instructions Before Operating Equipment

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INTRODUCTION

Software Defined Radios are becoming commonplace, and often have to work in conjunction with radio transceivers. Some means of protecting the SDR input is required while the rig is transmitting. Not all radios have an RF out (protected) jack, and those that do often require some sort of loopback connection to complete the receive audio path. Radios with IF outputs do not allow the full spectrum to be monitored. Some means of antenna sharing is often required which will isolate the SDR during transmit operations. The MFJ-1708SDR Transmit/Receive Switch will solve this.

TECHNICAL DESCRIPTION

The MFJ-1708SDR T/R switch uses a relay, which switches from transmit to receive mode. When no power is applied to the unit, it is in the transmit mode. Once power is applied the relay switches on and the unit is in receive mode. When the unit senses RF or the control line is grounded from a keyer or PTT switch, it switches the relay off and the unit is in transmit mode.

The delay adjustment allows you to change how fast the relay switches back to the receive mode. It is adjustable from 0 to 2 seconds.

The MFJ-1708SDR T/R Switch requires 12 VDC or 110 VAC with MFJ-1312D power supply.

CONTROLS

Power.....2.1mm Coaxial power input jack with center pin positive and shield negative
PTT.....RCA input jack
Delay.....Controls time delay for switching
Radio.....SO-239 Coaxial connector
Antenna.....SO-239 Coaxial connector
SDR.....SO-239 Coaxial connector

TECHNICAL ASSISTANCE

If you have any problem with this unit first check the appropriate section of this manual. If the manual does not reference your problem or your problem is not solved by reading the manual you may call *MFJ Technical Service* at **662-323-0549** or the *MFJ Factory* at **662-323-5869**. You will be best helped if you have your unit, manual and all information on your station handy so you can answer any questions the technicians may ask.

You can also send questions by mail to MFJ Enterprises, Inc., 300 Industrial Park Road, Starkville, MS 39759; by Facsimile to 662-323-6551; or by email to techinfo@mfjenterprises.com. Send a complete description of your problem, an explanation of exactly how you are using your unit, and a complete description of your station.

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