

TELESWITCH

WIRELESS SWITCH CONTROL

Features:

- 5/2 Watt Transceiver, PC Programmable
- VHF and UHF Frequency Band Models (see back for band splits)
- Wide or Narrow Band Models
- 8-15VDC Operation. Includes AC to DC Transformer
- Two 10 Amp Relay Outputs, Each Independently DTMF Controlled
- Programmable Relay Control Momentary or Latching Mode
- Bright LED Indicators for Power, Relay Status
- · Rugged, Weather Tight Enclosure
- DTMF Decode Acknowledgement Tone
- Mounting Bracket Included
- Made In USA

Benefits:

- · Long Range (miles not feet) Radio Control
- . No Trenching or Remodeling
- Easy Add-On to Existing Radio Systems
- Simple to Install
- Works through Repeaters for Even Longer Range
- Self Contained, All-in-One Solution

Economical Radio Controlled Remote Switch

When hard wiring is impractical or impossible, the Ritron TeleSwitch is ideal for any application where a contact closure is needed to remotely control a light, turn a pump on/off, activate a siren...

The TeleSwitch has two independently controlled relays, each providing a contact closure output upon receiving a uniquely defined DTMF (touch tone) code. This innovative two-way radio product consists of a RF transceiver and programmable DTMF decoder housed in a durable, weather-tight enclosure. The newly designed TeleSwitch combines rock-solid engineering with advanced solid state technology for reliability and ease-of-use.

Applications for the economically priced TeleSwitch are endless. Use for Electric/Gas Utilities, Petroleum, Chemical, Water/Waste Treatment Plants, Environmental Monitoring, Food/Agriculture Operations, as well as general manufacturing and industrial processes.

The TeleSwitch offers a great price-to-performance ratio that improves resource utilization. If you need long-range switch control, then contact the wireless solutions experts at Ritron.

For more information CALL 800-872-1872 or visit www.ritron.com



Easy-to-use...affordable... 2-way radio system to remotely turn on/off equipment as far away as 10 miles or more!





Base Station

General:

Frequency Range: VHF: 136-156 or 154-174 MHz UHF: 400-420 or 450-470 MHz

RF Channels: 8 Independent TX/RXfrequencies Synthesizer Step Size: 2.5 kHz VHF, 6.25 kHz UHF Frequency Stability: +2.5 PPM (-30° to + 60°C)

Tone/Code Signaling: CTCSS (Quiet Call) and/or DCS (Digital)

Input Voltage: 8 to 15VDC Input Current: 1.5 A max. @5W Relay Contact Rating: 10A@125VAC

Relay Operation: Programmable-Latching or Momentary (0.5 sec) LED Indicators: Power On, Relay Open/Closed

Battery Drain (Standby): 20mA@13.8VDC

Dimensions (with Housing): 3.0" H x 5.0" W x 7.0" D (less connectors) Weight:

26.5 oz

Antenna Fitting: BNC (board only), Module includes SMA Connector

Wide Narrow

Wide Narrow

Receiver: VHFTS-142UHFTS-442

(25 kHz) (12.5 kHz) (25 kHz) (12.5 kHz) Sensitivity (12dbSINAD): 0.25 uV 0.25 uV -60dB Adjacent Channel: -70dB -60dB -70dB Spurious Rejection: -65dB -65dB -55dB -55dB Image Rejection: -60dB -80dB -80dB -60dB Intermodulation: -65dB -65dB -60dB -60dB FM Hum & Noise: -46dB -40dB -46dB -40dB -57dB -57dB -57dB **Conducted Spurious:** -57dB Receiver Attack Time: < 25 ms < 25 ms Noise Squelch Attack Time: < 15 ms < 15 ms RSSI Squelch Attack Time: < 5 ms < 5 ms

RSSI Squelch Sensitivity: Manually adjustable, factory set for -106 dBm Noise Squelch Sensitivity: Manually adjustable, factory set for 12 dBSINAD

@ 3 kHz deviation WB, 1.5 kHz NB

AUX OUT Frequency Response: 6-3000 Hz@ + 1/-3dB

>700 mW @ 13.8 VDC <200 mA into 8 Ohms with <5 % THD Audio Output:

Transmitter:

Din# Nome

RF Power Output: VHF: 5.0 W min. @ 13.8 VDC @ < 1.0A 2.0 W nom. @ 13.8 VDC @ < 0.6A UHF: 5.0 W min. @ 13.8 VDC @ < 1.2A 2.0 W nom. @ 13.8 VDC @ < 0.75A Deviation: + 5 kHz +2.5 kHz

Transmitter Attack Time: < 20 ms < 20 ms FM Hum & Noise: -45 dB -40dB Audio Distortion: < 5 % < 5 % Spurious & Harmonics <-20dBm <-20dBm

AUX IN Frequency Response 7 Hz to 2700 Hz @ + 1/- 3 dB

SUB D 15-PIN CONNECTOR

The TS-142/442 is equipped with a 15-pin sub D connector with the following functions:

Pin#	Name	Description
1	CS0 Channel	Select low bit
2	CS1 Channel	Select mid bit
3	CS2 Channel	Select high bit
4	MICIN	Microphone Input
5	H/L PWR	High/Low Power
6	SUPPLY	Power Supply Inpu
7	AUXIN	Auxiliary Input
8	AUX OUT	Auxiliary Output
9	PGN IN/OUT	Programming I/O
10	N/A	Not used
11	RXMON	Monitor
12	Audio Out	Audio PA Output
13	DCD	Carrier Detect
14	PTT	Push-to-Talk
15	GND	Ground

Note: The TeleSwitch Transceiver requires the Ritron PC programming kit model DTXL-PCPK-2.0

Includes: TeleSwitch radio transceiver, with (2) DTMF controlled 10 Amp relays, (1) BNC dual band flexible antenna, (2) Flush Mount Brackets, (1) 110VAC to 12VDC@ 1.25 amps cube power supply.

Accessories: Optional "multi-code" relay control board. Allows separate DTMF codes to be used to open and close relay.

RPS-TS Spare cube power supply.

AFB-1545 Spare flexible antenna.

RAM-1545 Optional remote mount magnetic mount antenna (25ft of cable).

For remote applications use the Ritron RS-100 Solar Kit.

> Optional Solar Kit







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