



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

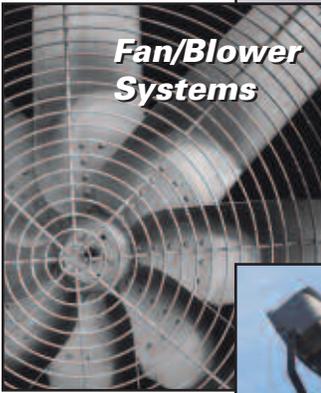


**Easy-to-use...affordable...
2-way radio system to
remotely turn on/off
equipment as far away
as 10 miles or more!**

**Emergency
Sirens**



**Fan/Blower
Systems**



**Flood
Lights**



**These Ritron radios can
be used to activate
the TeleSwitch.**



SLX Portable Radio



Jobcom
Base Station



RQT 24/7 Quick Talk
(Voice Alarm Reporter)

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

RF Channels: 8 Independent TX/RX frequencies
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

Receiver: VHFTS-142UHFTS-442

	Wide (25 kHz)	Narrow (12.5 kHz)	Wide (25 kHz)	Narrow (12.5 kHz)
Sensitivity (12dbSINAD):	0.25 uV	0.25 uV	0.25 uV	0.25 uV
Adjacent Channel:	-70dB	-60dB	-70dB	-60dB
Spurious Rejection:	-65dB	-65dB	-55dB	-55dB
Image Rejection:	-80dB	-80dB	-60dB	-60dB
Intermodulation:	-65dB	-65dB	-60dB	-60dB
FM Hum & Noise:	-46dB	-40dB	-46dB	-40dB
Conducted Spurious:	-57dB	-57dB	-57dB	-57dB
Receiver Attack Time:	< 25 ms	< 25 ms	< 25 ms	< 25 ms
Noise Squelch Attack Time:	< 15 ms	< 15 ms	< 15 ms	< 15 ms
RSSI Squelch Attack Time:	< 5 ms	< 5 ms	< 5 ms	< 5 ms
RSSI Squelch Sensitivity:	Manually adjustable, factory set for -106 dBm			
Noise Squelch Sensitivity:	Manually adjustable, factory set for 12 dB SINAD @ 3 kHz deviation WB, 1.5 kHz NB			
AUX OUT Frequency Response:	6-3000 Hz @ +1/-3dB			
Audio Output:	> 700 mW @ 13.8 VDC < 200 mA into 8 Ohms with < 5 % THD			

Transmitter:
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 Input
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



Go Beyond Normal Limits...™



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