



# INSTRUCTION MANUAL

## SWITCHING BOX WIRING

### Model RT-VWSB

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This product should be installed and operated only by qualified personnel. Its misuse is potentially dangerous. The Company makes no warranty as to the information furnished in this manual and assumes no liability for damages resulting from the installation or use of this product. The information herein is subject to change without notification.

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**RT-VWSB WIRING INSTRUCTION (10 or 20 sensors)**

RT-VWSB with 20 sensors							
				RT-VWSB with 10 sensors			
PC board	Signal	Sensor number	Sensor identification number	Sensor identification number	Sensor number	Signal	PC board
11A	a	11			10	d	10D
11B	b					c	10C
11C	c					a	10A
11D	d					GND	Shield
Shield	GND	12			9	d	9D
12A	a					c	9C
12B	b					b	9B
12C	c					a	9A
12D	d	13			8	d	8D
13A	a					c	8C
13B	b					b	8B
13C	c					a	8A
13D	d	14			7	GND	Shield
Shield	GND					d	7D
14A	a					c	7C
14B	b					b	7B
14C	c	15			6	a	7A
14D	d					d	6D
15A	a					c	6C
15B	b					b	6B
15C	c	16			5	a	6A
15D	d					GND	Shield
Shield	GND					d	5D
16A	a					c	5C
16B	b	17			4	b	5B
16C	c					a	5A
16D	d					d	4D
17A	a					c	4C
17B	b	18			3	b	4B
17C	c					a	4A
17D	d					GND	Shield
Shield	GND					d	3D
18A	a	19			2	c	3C
18B	b					b	3B
18C	c					a	3A
18D	d					d	2D
19A	a	20			1	c	2C
19B	b					b	2B
19C	c					a	2A
19D	d					GND	Shield
Shield	GND	20			1	d	1D
20A	a					c	1C
20B	b					b	1B
20C	c					a	1A
20D	d						

Signal	Standard vibrating wire sensor		
a	C +	Red	Positive coil wire
b	C -	Black	Negative coil wire
c	T +	White	Positive thermistor wire
d	T -	Green	Negative thermistor wire

*Note: The above color code stands for an IRC-41 cable. Please check gage's instruction manual or calibration data sheet for proper color code when using other type of cable.*

**Always ground switching box using ground connector.**

**RT-VWSB WIRING INSTRUCTION (8 or 16 sensors)**

RT-VWSB with 16 sensors							
				RT-VWSB with 8 sensors			
RTX 248	Signal	Sensor number	Sensor identification number	Sensor identification number	Sensor number	Signal	RTX 248
17AH	a	9			8	d	16DL
17BL	b					c	16CH
18CH	c					b	15BL
18DL	d					a	15AH
Shield	GND	10			7	GND	Shield
19AH	a					d	14DL
19BL	b					c	14CH
20CH	c					b	13BL
20DL	d	11			6	a	13AH
21AH	a					d	12DL
21BL	b					c	12CH
22CH	c					b	11BL
22DL	d	12			5	GND	Shield
Shield	GND					d	10DL
23AH	a					c	10CH
23BL	b					b	9BL
24CH	c	13			4	a	9AH
24DL	d					d	8DL
25AH	a					c	8CH
25BL	b					b	7BL
26CH	c	14			3	a	7AH
26DL	d					GND	Shield
Shield	GND					d	6DL
27AH	a					c	6CH
27BL	b	15			2	b	5BL
28CH	c					a	5AH
28DL	d					d	4DL
29AH	a					c	4CH
29BL	b	16			1	b	3BL
30CH	c					a	3AH
30DL	d					GND	Shield
Shield	GND					d	2DL
31AH	a					c	2CH
31BL	b					b	1BL
32CH	c					a	1AH
32DL	d						

Signal	Standard vibrating wire sensor		
a	C +	Red	Positive coil wire
b	C -	Black	Negative coil wire
c	T +	White	Positive thermistor wire
d	T -	Green	Negative thermistor wire

*Note: The above color code stands for an IRC-41 cable. Please check gage's instruction manual or calibration data sheet for proper color code when using other type of cable.*

**Always ground switching box using ground connector.**