



# **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					b	10B
11D	d					a	10A
Shield	GND					GND	Shield
12A	a	12			9	d	9D
12B	b					c	9C
12C	c					b	9B
12D	d					a	9A
13A	a	13			8	d	8D
13B	b					c	8C
13C	c					b	8B
13D	d					a	8A
Shield	GND					GND	Shield
14A	a	14			7	d	7D
14B	b					c	7C
14C	c					b	7B
14D	d					a	7A
15A	a	15			6	d	6D
15B	b					c	6C
15C	c					b	6B
15D	d					a	6A
Shield	GND					GND	Shield
16A	a	16			5	d	5D
16B	b					c	5C
16C	c					b	5B
16D	d					a	5A
17A	a	17			4	d	4D
17B	b					c	4C
17C	c					b	4B
17D	d					a	4A
Shield	GND					GND	Shield
18A	a	18			3	d	3D
18B	b					c	3C
18C	c					b	3B
18D	d					a	3A
19A	a	19			2	d	2D
19B	b					c	2C
19C	c					b	2B
19D	d					a	2A
Shield	GND					GND	Shield
20A	a	20			1	d	1D
20B	b					c	1C
20C	c					b	1B
20D	d					a	1A

Signal		Standard vibrating wire sensor		Other Type of Sensor
a	Red	C +	Positive coil wire	Cf. Calibration Data Sheet of the sensor
b	Black	C -	Negative coil wire	
c	White	T +	Positive thermistor wire	
d	Green	T -	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	a	11AH
Shield	GND					GND	Shield
23AH	a					d	10DL
23BL	b					c	10CH
24CH	c	13			4	b	9BL
24DL	d					a	9AH
25AH	a					d	8DL
25BL	b					c	8CH
26CH	c	14			3	b	7BL
26DL	d					a	7AH
Shield	GND					GND	Shield
27AH	a					d	6DL
27BL	b	15			2	c	6CH
28CH	c					b	5BL
28DL	d					a	5AH
29AH	a					d	4DL
29BL	b	16			1	c	4CH
30CH	c					b	3BL
30DL	d					a	3AH
Shield	GND					GND	Shield
31AH	a					d	2DL
31BL	b					c	2CH
32CH	c					b	1BL
32DL	d					a	1AH

Signal		Standard vibrating wire sensor		Other Type of Sensor
a	Red	C +	Positive coil wire	Cf. Calibration Data Sheet of the sensor
b	Black	C -	Negative coil wire	
c	White	T +	Positive thermistor wire	
d	Green	T -	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.**