

# 2432 Programmer User's Manual

RM2432, EX2432 & RM2402 Spread Spectrum Receivers Setup & Configuration

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## 1. Introduction



Spread Spectrum Receiver With Analog And Digital Outputs The RM2432/EX2432 & RM2402 wireless receivers utilize reliable Spread Spectrum Mesh Network Radio technology. Together with other ACI wireless sensors and controls, the system can be used to transmit remote sensor readings, status/alarm indications and control signals wirelessly. It is compatible with any control systems or DDC panels that accept 0-10 VDC or 0-5 VDC inputs.

### 2. Features

- For wireless sensor and wireless control applications
- Receives wireless sensor/relay information and outputs a corresponding signal to any DDC controller/panel

#### Models:

- *RM2432D* Network Coordinator or Network Monitor with up to 4 analog outputs (0-10 VDC or 0-5 VDC *field selectable*) and 4 digital outputs (relay contacts)
- *RM2432/EX2432* Network Coordinator or Network Monitor. Up to two I/O Expansion Modules (EX2432) can be used with the RM2432 Receiver. This will enable up to 12 analog outputs (0-10VDC or 0-5VDC) and up to 12 digital outputs (relay contacts)
- *RM2402* Network Coordinator or Network Monitor with up to 2 digital outputs (relay contacts)
- *RD2432D* End Device with up to 4 analog outputs (0-10 VDC or 0-5 VDC *field selectable*) and 4 digital outputs (relay contacts)
- o *RD2402* End Device with up to 2 digital outputs (relay contacts)
- Receives signals from up to 24 remote wireless sensor or control modules Real time sensor status indication See Figure 1
- Individual sensor low battery and lost sensor alarm indication See Figure 1 Common alarm relay output for external indication.
- Adjustable digital signal capture time (up to 4 hours) for applications such as temporary occupancy
- Reliable Spread Spectrum Wireless Mesh Network technology



## 3. Configuration Software System Requirements

- PC (Notebook or desktop) with Windows 95, 98, XP, Vista or Windows 7
- Minimum one 9-pin serial port (or USB/Serial) that is not shared by another device.
- Minimum of 10 megabytes of hard drive memory is available.

## 4. Configuration Software Installation

- The 2432 Programmer Configuration Software can be downloaded from the ACI website or it may be shipped with the RM2432D Receiver.
- If a software CD is available, insert the disks or CD ROM into the appropriate disk drive and follow the instructions to complete the installation.
- If the software is downloaded from the <u>www.workaci.com</u> website, unzip the files to a temporary folder. Open the temporary folder and run the setup.exe file. Follow the instructions to complete the installation.
- A folder named"trs", located at the root directory "c:\" of the computer, is required for the software to operate properly. If the folder "trs" does not exist, create the folder at the "c:\" level before proceeding to section 5 below.

## 5. Connecting the RM2432 or RM2402 receiver to a PC

- A programming cable (PN: CK2432D) is required to connect from the PC serial port to the RM2432/RM2402 Receiver. The 2432 Programming Cable is a 4-ft cable with a 9-pin female connector on one end and a RJ11 type connector on the other end.
- Connect the 9-pin female connector of the programming cable (PN: CK2432D) to the COM (Serial) port of the PC. Ensure the 9-pin female connector is securely attached to the COM (serial) port of the PC by tightening the connection screws
- Connect the other end of the programming cable (RJ11 connector) to the RM2432 Circuit Board Connector (female RJ connector). See Figure 1 above for location.
- Connect 24VAC to the RM2432A Receiver power input terminals

### 6. Creating a RM2432 Configuration File

To create a new RM2432 configuration file open the 2432 Programmer by clicking on Start > Programs > 2432 Programmer.

TRS2432/	1432 Configuration Tool	1	
<u>File</u> Setting	gs <u>D</u> eviceType		

Select RM1432/RM2432 from "DeviceType" tab.

TRS2432/1432 Configuration Tool								
File Settings	DeviceType							
	RM1432/2432(4-AO 4-DO)							
	RM2432+EX2432(4-AO 4-DO)							
	RM2402(2-DO)							
	RD2432(4-AO 4-DO)							
	RD2402(2-DO)							
L								
	TRS2432/143							

To open a new configuration table Click on File  $> {\rm New}$  . A blank configuration table will open.

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<u>File</u> Set	ttings <u>C</u> ompatibility(TRS	1432)				
	TRANSMITTER ID	TRANS CHAN	DATA FORMAT	RANGE START	RANGE END	
ANALOG	i					
ANALOG	i					
ANALOG	i					
ANALOG	ì					
AT DIGITAL						Version ·
DIGITAL						10000673
DIGITAL						10000673
ton DIGITAL						
/orl						

There are eight rows displayed as shown above (4 ANALOG & 4 DIGITAL). These rows represent the eight outputs of the RM2432 Receiver. Each of these outputs can be assigned to a sensor/transmitter. Up to 8 sensor/transmitters can be assigned to the receiver if needed. The first "Analog" row will represent analog output #1 on the RM2432. The  $2^{nd}$  "Analog" row will represent the output #2 on the RM2432 and so on.

Each row of the configuration table is a unique data register having five special attributes.

TRANSMITTER ID	 Assigns a wireless sensor/transmitter address to the RM2432 output. Each wireless sensor is factory configured with a unique hexadecimal address (TXID).
TRANS CHAN	 Assigns a wireless sensor/transmitter data channel to the data register. A wireless sensor/transmitter may have up to four (4) analog channels and (4) digital status/alarm channels.
DATA FORMAT	 Assigns the data type to the register – temperature (Thermistor 20K), humidity, analog or digital.
RANGE START	 For Analog Output Only – Assign the low end of the analog range ( 0 volt output)
RANGE END	 For Analog Output Only – Assign the high end of the analog range ( 5 or 10 volt output)

## 7. Transmitter ID

Assign a sensor/transmitter to the data register by clicking in the TRANSMITTER ID cell to open a drop down menu. Use the scroll bar to scroll to the correct address or automatically scroll to the address by typing the hexadecimal address in the cell. To select the address click on the appropriate ID in the drop down menu or press the down arrow key. Each Trs Systems transmitter is factory configured with a unique ID – refer to the sensor product data sheet for the location of the transmitter ID (TXID).

Note: The TXIDs are entered as numerical value. For sensor ID "03BE", it should be entered as "3BE"

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Eile <u>S</u> ettings <u>C</u> ompatibility(TRS1432)								
	TRANSMITTER ID	TRANS CHAN	DATA FORMAT	RANGE START	RANGE END			
ANALOG	1E25 🔹							
ANALOG	1E25							
ANALOG	1E26							
ANALOG	1E27							
DIGITAL	1E28							
DIGITAL	1623							
DIGITAL	1E2B							
DIGITAL	1E2C *							

### 8. Transmitter Channel

- Assign the appropriate sensor transmission channel to the analog or digital output register by clicking in the cell to open a drop down menu. Click on the appropriate transmission channel (01 to 04) to select.

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	<u>F</u> ile <u>S</u> etti	ngs <u>C</u> ompatibility(TRS143	2)			
		TRANSMITTER ID	TRANS CHAN	DATA FORMAT	RANGE START	RANGE END
	ANALOG		-			
	ANALOG					
	ANALOG		1			
	ANALOG		2			
	DIGITAL		3			
	DIGITAL		4			
	DIGITAL					
	DIGITAL					
<u>i</u> Ľ						

- Refer to Table 1 below for TRAN CHAN number for all the applicable ACI Sensors:

Device	Description & Data Type	Output type	Trans Chan	Data Format	Range Start	Range End
WT2630A	Wall Sensor Temp	Analog	1	Therm 20K	32	104
WT2630B	Wall Sensor Temp	Analog	1	Therm 20K	32	104
	Wall Sensor Setpoint	Analog	2	COUNT	0	4095
	Wall Sensor Push Button	Digital	1	Digital	NA	NA
WT2630C	Wall Sensor Temp	Analog	1	Therm 20K	32	104
	Wall Sensor Push Button	Digital	1	Digital	NA	NA

RM2432 Receiver Setup and Configuration

WH2630A	Wall Humidity Sensor	Analog	1	Humidity	0	100
WH2630B	Wall Sensor Temp	Analog	1	Therm 20K	32	104
	Wall Humidity Sensor	Analog	2	Humidity	0	100
OA2630A	Outdoor Temp	Analog	1	Therm 20K	-40	160
	Outdoor Humidity	Analog	2	Humidity	0	100
OST2630A	Outdoor Temp	Analog	1	Therm 20K	-40	160
DT2630A	Duct Temp	Analog	1	Therm 20K	-40	200

DT2650A	Average Duct Temp	Analog	1	Therm 20K	32	167
DH2630A	Duct Humidity	Analog	1	Humidity	0	100
DH2630B	Duct Temp	Analog	1	Therm 20K	-40	200
	Duct Humidity	Analog	2	Humidity	0	100
FT2630A	Immersion Temp	Analog	1	Therm 20K	-40	200
RT2630A	Analog Inputs 20K Thermistor	Analog	1 to 4	Therm 20K	-40	200
	Digital Inputs	Digital	1 to 4	Digital	NA	NA
RT2630B	Analog Inputs 0-10 VDC	Analog	1 to 4	Count	0	4095
	Digital Inputs	Digital	1 to 4	Digital	NA	NA
RT2630C	Analog Inputs 0-20 mA	Analog	1 to 4	Count	0	4095
	Digital Inputs	Digital	1 to 4	Digital	NA	NA
RT2602D	Digital Input Module	Digital	1 to 2	Digital	NA	NA
RT2620A	Digital Input Module	Digital	1 to 4	Digital	NA	NA
SST2630A	Remote/Strap-on Temp	Analog	1	Therm 20K	-40	200

Table 1

### 9. Data Format, Range Start & Range End

Select the appropriate DATA FORMAT, RANGE START & RANGE END values by clicking in the appropriate cells to open a drop down menu.

ALOG  ALOG THERM 20K ALOG COUNT ITAL ITAL ITAL ITAL ITAL ITAL		TRANSMITTER ID	TRANS CHAN	DATA FORMAT	RANGE START	RANGE END
ALOG THERM 20K ALOG COUNT ALOG COUNT ITAL HUMIDITY ITAL MOISTURE	NALOG				•	
ALOG         THEBM 20k           ALOG         COUNT           ITAL         HUMIDITY           ITAL         MOISTURE           ITAL         TITAL	NALOG					
COUNT           ITAL         HUMIDITY           ITAL         MOISTURE           ITAL         ITAL	NALOG			THERM 20k		
ITAL HUMIDITY ITAL MOISTURE III ITAL IIII	NALOG			COUNT		
ITAL INGISTURE	IGITAL					
	IGITAL			MOISTORE		
114	GITAL					
	GITAL					

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	TRANSMITTER ID	TRANS CHAN	DATA FORMAT	RANGE START		RANGE END		
ANALOG			THERM 20k		-			
ANALOG				26	~			
ANALOG				27				
ANALOG	4			28	-			
DIGITAL	4			29				
DIGITAL	4			31				
DIGITAL	4			32				
DIGITAL				33	×			

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<u>File</u> <u>S</u> ettin	igs						
	TRANSMITTER ID	TRANS CHAN	DATA FORMAT	RANGE START	RANGE END		
ANALOG			THERM 20k		-		
ANALOG					158		
ANALOG					159		
ANALOG					160		
DIGITAL					161		
DIGITAL					162		
DIGITAL					164		
DIGITAL					165 💌		

Refer to table-1 above for information to assign the appropriate DATA FORMAT, RANGE START and RANGE END with different applicable ACI sensor.

### **10.** Miscellaneous Settings

Options			- 0 X	
<u>31</u>	Transmitter Timeout (min)			
Digital Capture Time	Output State or	Output State on Loss of Transmitte		
	Seconds	Off	C	
	O Minutes	Last	•	
P Code	V Code			
MSByte LSByt	te MSBytε ▼ 01 ▼	LSByte 71 ▼		
Series 2000				
	Device Network State		ОК	
	D			
Network ID	O Monitor Network ID		Cancel	

Set the <u>transmitter transmission timeout interval</u> (suggestion 30 min.) by clicking in the Transmitter Timeout cell to open a drop down menu. Use the scroll bar to scroll down to the appropriate value (1 to 60 min.) or type the value in the cell to automatically scroll to the appropriate value. This will be used to generate an error message if the transmitter fails to transmit in the specified time interval.

The **<u>Digital Input Capture Time</u>** can be set to hold a momentary contact closure such as the override button on the WT2630B/C for a period of time (**Default is 0 min. for RM2432D**).

The Digital Capture Time can be set up to 240 minutes (4 hours) in applications where an extended period of time is needed such as "unoccupied

period by-pass".

Set the Digital Capture Time interval (seconds or minutes) by clicking on "Seconds" or "Minutes". Click in the Digital Capture Time cell to open a drop down menu. Use the scroll bar to scroll down to the appropriate value (0 to 240) or type the value in the cell to automatically scroll to the appropriate value. To select the timeout interval click on the appropriate value in the drop down menu.

<u>Output State on Loss of Transmitter</u> – This option will enable the user to select the default outputs of the receiver when the associated sensor/transmitter lost communication with the RM2432D receiver (after the Transmitter Timeout period)

- 'Off' Analog output (associated with the lost sensor) = 0 VDC Digital output (associated with the lost sensor) = contact open
- 'Last' -Analog output (associated with the lost sensor) = Last value before communication lost. Digital output (associated with the lost sensor) = Last state before communication lost

### <u>Network ID – The Network ID applies to the new Series 2000 devices</u> (RM2432/RM2402) only and is not applicable to the older RM1432D product.

Assign the mesh network ID of the receiver. This network ID should be the same as any Repeater/Routers that are assigned to this Receiver (Network Coordinator).

### Device Network State -

A typical mesh network application can be classified as "many-to-one" (many sensors or End Devices sending information to one Network Coordinator). For 'one-to-many' application (one sensor or transmitter is to send information to multiple RM2432/RM2402s), *only one RM2432/RM2402 can be programmed as a Network Coordinator* (check "Coordinate Network ID" box). All the other RM2432/RM2402 shall be set as Network Monitor devices (check "Monitor Network ID" box).

### 11. Saving and downloading the configuration file

To Save the configuration file click on File > Save. It is recommended that the .vlt file be saved in the Trs folder already setup. i.e. C:\trs\trs2432

Save Register O	onfiguration				? 🔀
Savejn:	🗀 trs1432		•	+ 🗈 💣 📰	
My Recent Documents Desktop My Documents My Computer	ConfirmAutoma ConfirmAutoma ConfirmAutoma SurveyKit.vlt	tion 1432-1.vlt tion 1432-2.vlt tion 1432-2a.vlt			
My Network Places	File <u>n</u> ame: Save as <u>t</u> ype:	config c:\trs\trs1432\*.vlt		•	<u>S</u> ave Cancel

### Always save the configuration file before sending it to the RM2432 Receiver.

To send the new configuration file to the RM2432 Receiver click on File > File Transfer and a dialog box will appear.

	Select File to Send	
	File Name	
erial Port	Comm Port	
Comm Status		
Open Port	Close Port Clear Status	
	File Status	
		. 1

AUTOMATION COMPONENTS, INC 2305 Pleasant View Road Middleton, Wisconsin 53562 www.workaci.com (888) 967-5224 Click on "Select File" and a window will open. Move to the Trs directory and select the appropriate file (last saved) from the list.

Select the associated COM port (the com port to which the CK2432 programming cable is attached) on the drop-down manual and click open port. The Comm Status window will displayed whether the COM port is ready for file transfer. When the COM port is ready click on "Send File" to the send the configuration file to the Receiver.

### 12. Creating a RM2432/EX2432 Configuration File

When the RM2432 is used with its I/O extension module, select the "RM2432/Ex2432" "DeviceType".

	TRS2432/1432 Configuration Tool						
	File Settings	DeviceType	]				
		RM1432/2432(4-AO 4-DO)	l				
		RM2432+EX2432(4-AO 4-DO)					
l		RM2402(2-DO)	l				
l		RD2432(4-AO 4-DO)					
		RD2402(2-DO)	I				
	L						

To open a new configuration table Click on File > New . A blank configuration table will open.

	TRANSMITTER ID	TRANS CHAN	DATA FORMAT	RANGE START	RANGE END	
ANALOG MAIN						
ANALOG MAIN						
ANALOG MAIN						
ANALOG MAIN						
DIGITAL MAIN						
DIGITAL MAIN						
DIGITAL MAIN						
DIGITAL MAIN						
ANALOG EXT1						
ANALOG EXT1						
ANALOG EXT1						
ANALOG EXT1						
DIGITAL EXT1						
DIGITAL EXT1						
DIGITAL EXTI						
TIC DIGITAL EXTT						Versi
ANALUG EATZ						10000
ANALOG EXT2						10000
DIGITAL EXT2	1					
DIGITAL EXT2	1					
DIGITAL EXT2						

## 14. Creating a RD2432 Configuration File

The RD2432 and RD2402 devices are normally configured in the factory and no field setup is required. When the TXID of the RD2432 is to be programmed in the field, select the "RD2432 (4-AO 4-DO)" "DeviceType".



To open a new configuration table Click on File > New . A blank configuration table will open.

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<u>F</u> ile <u>S</u> etti	File Settings Compatibility(RD2432)								
	TRANSMITTER ID	TRANS CHAN	DATA FORMAT	RANGE START	RANGE END				
ANALOG		1	COUNT	0	4095				
ANALOG		2	COUNT	0	4095				
ANALOG		3	COUNT	0	4095				
ANALOG		4	COUNT	0	4095				
DIGITAL		1	DIGITAL						
DIGITAL		2	DIGITAL						
DIGITAL		3	DIGITAL						
DIGITAL		4	DIGITAL						
		·							

There are 8 rows displayed as shown above (4 ANALOG & 4 DIGITAL). These rows represent the 8 outputs of the RD2432 device. Each of these outputs can be commanded and controlled by a remote network transceiver (such as MOD9200 Bacnet, LonWorks or MODbus transceiver). The first "Analog" row will

represent analog output #1 on the RD2432. The 2<sup>nd</sup> "Analog" row will represent the Output #2 on the RD2432 and so on.

Enter the TXID of the RD2432 device in the any "TRANSMITTER ID" field. The rest of the 7 "TRANSMITTER ID" fields will be automatically filled with the same TXID.

Enter all the 'Miscellaneous' information where applicable. Refer to the previous sections for information and procedures.

### 15. Creating a RD2402 Configuration File

The RD2432 and RD2402 devices are normally configured in the factory and no field setup is required. When the TXID of the RD2402 is to be programmed in the field, select the "RD2402 (2-DO)" "DeviceType".



To open a new configuration table Click on File > New . A blank configuration table will open.

Editor -			_	-	<b>X</b>
<u>File</u> Setti	ings <u>C</u> ompatibility(RD2402	2)			
	TRANSMITTER ID	TRANS CHAN	DATA FORMAT	RANGE START	RANGE END
DIGITAL		1	DIGITAL		
DIGITAL		2	DIGITAL		

There are 2 rows displayed as shown above (2 DIGITAL). These rows represent the 2 outputs of the RD2402 device. Each of these outputs can be commanded and controlled by a remote network transceiver (such as MOD9200 Bacnet,

LonWorks or MODbus transceiver).

Enter the TXID of the RD2402 device in the any "TRANSMITTER ID" field. The other "TRANSMITTER ID" fields will be automatically filled with the same TXID.

Enter all the 'Miscellaneous' information where applicable. Refer to the previous sections for information and procedures.

## 16. Activating The Configuration File

Once the configuration file has been sent to the Receiver it will become active immediately. After the RM2432/RM2402 receives all the sensor transmissions, the appropriate LEDs at the top of the receiver will be lit. Note: The time for the LEDs to come on depends on the transmit time setting of the sensor – typically 1 to 2 min.

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