# **RS232 to WiFi CONVERTER**

### Model: RHW-925



Your purchase of this RS232 to WiFi **CONVERTER** marks a step forward for you into the field of precision measurement. Although this Meter is a complex and delicate instrument, its durable structure will allow many years of use if proper operating techniques are developed. Please read the following instructions carefully and always keep this manual within easy reach.



# **OPERATION MANUAL**

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## **1. FEATURES**

- \* Can be temperature and humidity data sent to the desired device through WiFi. the use of smart phones or tablet computers developed by the company's free software to do data collection record APP.
- \* WiFi work mode: Access Point(AP) or Client mode
- \* I/O terminal:
  - 1.DC 9V power input
  - 2.DC 9V power output(power supply for the connecting RS232 meter)
  - 3.Pt-100 ohm input.
  - 4.Three RS232 input(photo isolate RS232 type)
  - 3.Ethernet RJ485 input.
- \* Basic setting:
  - 1.NetMode, 2.SSID, 3.Password, 4.IP address, 5.Port,
  - 6.Gateway address,
- \* Simultaneous display Humidity ,Temperature,Web buie, Dew point temp. reading value.
- \* Humidity range : 5% to 95%
- \* Temprature range : 0  $^\circ\!\mathrm{C}$  to 50  $^\circ\!\mathrm{C}$  ,  $^\circ\!\mathrm{C}{}/^\circ\mathrm{F}$
- \* Maximum TCP connections to 20
- \* Without going through the computer settings, can be used directly after the machine settings

# 2. SPECIFICATIONS

Circuit	Custom single-chip microprocessor LSI circuit
Display	LCD Size: 3.2 X 2.4" (60 X 44.4 mm)
	Dot Matrix backlit LCD (128 X 64 pixels)
Wireless	* Support IEEE 802.11b / g / n wireless standards
	* Support the range of frequency : 2.412 to 2.484 GHz.
	* Support two types of wireless networks: Access
	Point(AP) and Client
	* Support multiple security authentication mechanisms :
	64/128/152 bit WEP encryption, WPA-PSK/
	WPA2-PSK 🔻 VPA/WPA2 security mechanism.
NET mode	* Access Point (AP) Mode(Wireless)
setting	* Client Mode(Wireless)
	* Ethernet Mode(RJ45)
Measurement	* Humidity/ Temperature
	* Dew pint Temperature
	* Wet bulb Temperature
	* Pt 1000 ohm Temp.
Data Output	RS232 computer serial interface
USB/RS232	* Connect the optional USB cable USB-01 will get the
*Computer	USB plug.
interface	* Connect the optional RS232 cable UPCB-02 will get the
	RS232 plug.
Operating	0 to 50°C ( 32 to 122°F ).
temperature	
Operating	Less than 80% R.H
humidity	
Power supply	AC to DC adapter 9V.
Power	DC 170 mA approximately.
consumption	
Weight	222 g/0.49 LB.
Dimension	134 X 80 X 32 (5.3 X 3.1 X 1.3 inch).
	* Dimension is for the meter without antenna only.

Accessories	* Instruction manual 1PCS
included	* Hanging unit ( with sticker ) 1PCS
	* AC to DC 9V power adapter 1PCS
Optional	* RS232 cable,UPCB-02.
Accessories	* Pt 1000 Temp. probe,TP-1000
	* USB cable,USB-01.
	* Data Acquisition software,SW-U801-WIN.
	* Power interface cable, PWCB-06

#### 2-2. Electrical Specifications (23 ± 5 $^{\circ}$ C)

Humidity

Range	Resolution	Accuracy
5 % to 95 %RH	0.1 %RH	< 70 %RH: ± 3 %RH
		$\geq$ 70 %RH: ±(3 %RH reading + 1 %RH)

#### Temperature

Range	Resolution	Accuracy
0.0 °C to 50.0 °C	0.1 °C	± 0.8 °C
32.0 °F to 122.0 °F	0.1 °F	± 1.5 °F

#### Dew point Temp.

Range	Resolution	Accuracy
-25.3 ℃ to 49.0 ℃	0.1 °C	Calculate from the
-13.5 °F to 120.0 °F	0.1 °F	Humidity/Temp. Value

#### Wet bulb Temp.

Range	Resolution	Accuracy
-5.4 ℃ to 49.0 ℃	0.1 °C	Calculate from the
22.2 °F to 120.0 °F	0.1 °F	Humidity/Temp. Value

#### Pt 1000 ohm Temperature(optional probe)

Range	Resolution	Accuracy
-10.0 ℃ to 70.0 ℃	0.1 °C	± 1.2 °C
14.0 °F to 158.0 °F	0.1 °F	± 2.5 °F

### **3. FRONT PANEL DESCRIPTION**



Fig. 1

- 3-1 DC 9V Power adapter input socket
- 3-2 DC 9V output socket
- 3-3 Humidity/Temp. sensor
- 3-4 Antenna and antenna socket
- 3-5 Display
- 3-6 SETUP/ENTER KEY
- 3-7 EXIT( 🔆 ) key button
- 3-8 🛦 key button
- 3-9 ▼ key button
- 3-10 < key button
- 3-11 ► key button

- 3-12 System reset button
- 3-13 Stand
- 3-14 Hanging holes
- 3-15 Hanging unit ( with sticker )
- 3-16 Power interface cable/plugs
- 3-17 Isolate RS232 output socket
- 3-18 Pt1000 input socket
- 3-19 Network socket(RJ45)

# 4. MEASURING PROCEDURE

#### 4-1. The initial startup screen



#### SCREEN4-1-1

#### 4-2.Measuring and setting screens:

1.Measurement screen:



SSID	:	RHW-925		
IP	:	192.168.	0.254	
Port	:	200		

SCREEN4-2-3

WiFi	AP	Reconnect
SSID	: RHW-925	
IP	: 192.168.	0.254
Port	: 200	

#### SCREEN4-2-5



SCREEN4-1-2



#### SCREEN4-2-2

WiFi	Client		((·•
SSID IP Port	: RHW-925 : 192.168. : 200	0.254	

SCREEN4-2-4

WiFi Client Reconnect SSID : RHW-925 IP : 192.168. 0.254 Port : 200

SCREEN4-2-6

NetMode : Client SSID : RHW-925	Gateway: 192.168. 0. 1
Encrypt : none Password: 12345678 IP : 192.168. 0.254	Default Settings: N
Port: 200	2/2

SCREEN4-2-5

SCREEN4-2-6

#### 4-3. The summary description of keyboard:

- 1.SETUP(Enter) KEY: Setting screen into the select key 2.In the setting mode:
- 2-1.Press  $\blacktriangle$  or  $\blacksquare$  to select the field in the upper and lower beating
- 2-2.  $\blacktriangle$  or  $\triangledown$  > 2 SEC.: The selected field will rapidly beating
- 2-3.  $\blacktriangle$  +  $\bigtriangledown$  > 2 SEC.: Then the entire column cleanup
- 2-4.Press ▲ KEY hold short press ▼ KEY and the right of the text will be cleared
- 2-5. ◀ · ►KEY: Left and right keys
- 2-6.EXIT/SHIFT( \* ) KEY: Press key text input type selection or setting screen left
- 3.In the measurement mode:
- 3-1.In Easy mode, press  $\blacktriangle$  +  $\bigtriangledown$  > 2 SEC. Then turned into full mode
- 3-2.In full mode, press  $\blacktriangle$  +  $\bigtriangledown$  > 2 SEC. Then becomes easy mode
- 3-3.EXIT/SHIFT( 🗱 ) KEY: Backlight control key

#### 4-4.Setting Description:

- 1.When the POWER ON, then enter the startup screen countdown 30 SEC. (SCREEN4-1-1 & SCREEN4-1-2) to 0 SEC. Then enter the measurement screen (SCREEN4-2-3 or SCREEN4-2-4).
- 2.Press SETUP KEY once you enter the setup screen as SCREEN4-2-7 or SCREEN4-2-8
- 3.In the function directory option Press  $\blacktriangle$  or  $\blacktriangledown$  KEY, functional directory option will flash.
- 4.Press ◀ or ► KEY into the content selection function directory option (in this case will flash), After selecting the complete press SETUP KEY Then back to the function directory option to determine the setting options
- 5.Function directory:

- 5-1.NetMode: Select AP or Client, the factory setting is Client.

  - B. Press ▼ KEY into the SSID option from NetMode
- 5-2.SSID: The default setting is RSW-925
  - A. Enter up to 21 characters
  - B. Press ◀ or ► KEY then enter the option contents, then press ▲ or ▼ KEY to select the input text, press EXIT / SHIFT KEY select words in English caseor numbers. Determined by SETUP KEY do confirm the contents, then will return to the SSID directory.
  - C. Press ▼ KEY into the Encrypt option from SSID
- 5-3.Encrypt: The default setting is none
  - A. none/wep\_open/wep/wpa\_tkip/wpa\_aes/wpa2\_tkip/wpa2\_aes/ wpawpa2\_tkip/wpawpa2\_aes total of nine
  - B. After pressing ▲ or ▼ KEY select the option by the need, press SETUP KEY to confirm, then will return to Encrypt directory
  - C.Press ▼ KEY into the Password option from Encrypt
- 5-4.Password: The default setting is 12345678
  - A. Press ◀ or ► KEY then enter the option contents, then press ▲ or ▼ KEY to select the input text, press EXIT / SHIFT KEY select English words large, lowercase and numbers Press SETUP KEY do confirm the contents, then will return to Password directory
  - B. Press ▼ KEY into the IP option from Password
- 5-5.IP: The default setting is 192.168.0.254
  - A. Press ▶ or ◀ KEY then enter the option contents, then press ▲ or ▼ KEY to select the number, press the SETUP KEY The contents do confirm, then will return to the IP directory
  - B. Press ▼ KEY into the Port option from IP
- 5-6.Port: The default setting is 200
  - A. Input Range:1-65535
  - B. Press ▶ or ◄ KEY then enter the option contents, then press ▲ or ▼ KEY to select the number, press the SETUP KEY The contents do confirm, then will return to the Port directory
  - C. Press ▼ KEY into the Gateway option from Port

5-7.Gateway: The default setting is 192.168.0.1

A. Press ► or ◀ KEY then enter the option contents, then press ▲ or ▼ KEY to select the number, press the SETUP KEY The contents do confirm, then will return to the Gateway directory

B.Press ▼ KEY into the Meter CH.option from Gateway 5-8.UNIT:

- A. Press ▶ or ◀ KEY once,into the UNIT Choice, then use ▲ or ▼ Key to select °C or °F, then press SETUP Key back to UNIT Choice.
- B. Press▼ KEY into the Default Settings option from Meter CH.

5-9.Default Settings: Reply factory setting (refer NO.4-7)

#### 4-5.Set value storage:

Press EXIT / SHIFT KEY save settings, and return to the measurement screen, such as SCREEN4-2-5 or SCREEN4-2-6. This time to reconnect after about 25 SEC WiFi is doing set after, then back SCREEN4 -2-3 or SCREEN4-2-4 screen.

#### 4-6. Mesurement and WiFi connection:

- A. In SCREEN4-2-1 is Tempereture and Humidity mesurement Function screen.
- B. Pt1000 mesurement Function:
  - 1) Pt1000 probe insert to Fig.1 3-18.
  - 2) In SCREEN4-2-1, press ► Key once ,into Pt1000 mesurement scree (as SCREE 4-2-2),then press ► Key again,will back SCREE 4-2-1.
  - SCREE 4-2-3 or SCREE 4-2-4 upper right corner Symbol flashes, that WIFI connection is ok.

#### 4-7.Reply factory setting

- 1.Press SETUP KEY once you enter the setup screen as SCREEN4-2-7 & SCREEN4-2-8
- 2.Press ▲ 丶 ▼ KEY select the option to Default Settings item, pres ► KEY once you enter N option, press ▲ or ▼ KEY select Y press Enter KEY ,will return to directory option then press EXIT / SHIFT KEY will return to factory default action to do its screen will SCREEN4-2-5 or SCREEN4-2-6, after about 25 SEC later. would return SCREEN4-2-3 or SCREEN4-2-4.

#### 4-8.AP Mode:

- 1.First, install lutron dedicated APP software
  - 1-1.The use of smart phone Andriod or iOS system software download Lutron MeterApp (SCREEN4-8-1), Andriod Password: Az6210 ,iOS Password: aZ6210.
  - 1-2.After the download is complete, install it.

Iutron meterapp Q   Did you mean: lutron meter app >	K 🕲 WLAN	
Lutron MeterApp UTRON ELECTRONIC ENT. CO MISTALED 2. Lutron OneMeterApp	RHW-925 已連線	<b>?</b>
LUTRON ELECTRONIC ENT. CO.	SCREEN4-8	-2

- 2. The RHW-925 boot into the measurement screen (SCREEN4-2-1).
  - 2-1.Determine the following set parameters (such as SCREEN4-2-6)
    - A.NetMode: AP B.SSID: RSW-923 C.IP: 192.168.0.254 D.Port: 200
    - 2-2.Start Smart Phone WiFi, make RHW-925 connection (SCREEN4-8-2).
    - 2-3.Open MeterApp software (such as SCREEN4-8-3)
      - A. In SCREEN4-8-3 select Step1 (Meter1)
      - B. Is displayed SCREEN4-8-4, select Step2 tool button then into the SCREEN4-8-5
      - C. Enter the relevant information in SCREEN4-8-5
        - 1) Meter name: Meter1 name can be changed to the desired user name
        - 2) CH NO .: In accordance Meter CH NO. To enter
        - Sampling time: minutes as a reference, check after do Logger function (must be set)
        - 4) IP: In accordance with RHW-925 IP as input and must tick (must be set)

- 5) Port: In accordance with RSW-925 Port as input and must tick (must be set)
- 6) Save file: Select the Logger path to be stored (must be set)
- 7) Alarm Beeper: After checking the SCREEN4-8-7 to tie the set , when they meet the conditions have an effect
- 8)Alarm SMS: After checking the SCREEN4-8-7 to tie the set, when meet the conditions will send SMS
- D. In SCREEN4-8-6 the Save tool button, the value will be set according to Save the storage, and it will return to SCREEN4-8-4 screen when Step3 green and flashing that means the RSW-925 connection
- E. In SCREEN4-8-4 of Step4 (CH1) click on the picture into the SCREEN4-8-7, then do High and Low Set and checked, when you press the Return smart phone screen will return to SCREEN4-8-4 When the measured value have reached the condition CH1-CH3 will show red numbers and have Beeper and send SMS.
- F. In SCREEN4-8-4 of Step5 tool button to switch directly display the value of Meter1-Meter4
- G. Re-connect: When they find breaking news WiFi is not connected, you can press the function do reconnect action.
- H. Auto Log: Sampling time is set based on the time and checked, do the automatic recording function (such as SCREEN4-8-5).
- Manaul Log: Each time you press the tool button, then record sum. Both formats Auto Log or Manaul Log, archival records are xml.
- J. View Log: See the recorded data directly on smart phones (such as SCRE

#### REMARK:

if use lutron sw-818 software, channals please setting to 12 CH.







#### SCREEN4-8-3

#### SCREEN4-8-4

#### SCREEN4-8-5

Pro	ject 1	м	eter1		Pro	ject 1		Meter 1			
~	Sampling tin	ne	1 Min	utes		~	Name	A1		10	
~	IP		192.168.0.254		сн1	~	High	100 <sub>Low</sub> 70		613	
3	Port		200				Unit				
	Sava fila		/sdcard/ external_sd/			~	Name	A2		-	
			Lutron_App		сна		High	60 <sub>Low</sub> 20		IISAA	
$\leq$	Alarm Beepo	er C	210				Unit				
	Alarm SMS 1			_			Name	A3			
	Alarm SMS 2			_	сна		High	60 Low 20		1/2014	
	Alarm SMS 3						Unit			10.0	
		S	ave				onic				

SCREEN4-8-6

SCREEN4-8-7

SCREEN4-8-8

#### 4-9.Client Mode (internal network):

1.First, you must prepare a wireless device as AP.

- 1-1.This device set SSID for RHW-925 (by the user to determine the SSID name)
- 1-2.Password not set

2. The RHW-925 is set to Client mode, the relevant parameters are as follows:

- 2-1.NetMode: Client
- 2-2.SSID: RHW-925
- 2-3.IP: 192.168.0.254
- 2-4.Port: 200

2.AS SCREE4-2-3, SCREE4-2-4.

#### 4-10.Client Mode(External network fixed IP):

1.Simple schematic network:



- 2. The RHW-925 is set to Client mode, the relevant parameters are as follows:
  - 2-1.NetMode: Client
  - 2-2.SSID: RHW-925
  - 2-3.IP: 192.168.0.254
  - 2-4.Port: 200
  - 2-5.Gateway: 192.168.0.1(With a smart phone in the App Store to download IP Tools, after the installation and execution can be learned)

3.into the IP Router do parameter settings, the contents of the red box set you can do

D-Lin	K						$\prec$
DIR-632	e	SETUP	ADVANCED	TOOLS		STATUS	SUPPORT
VIRTUAL SERVER	VIR	TUAL SERVER					Helpful Hints
PORT FORWARDING	The	Virtual Server onti	on allows you to define a sin	ale public port o	on your route	er for redirection	Check the
APPLICATION RULES	to an	internal LAN IP A	ddress and Private LAN port	if required. This	s feature is u	seful for hosting	Application Name
QOS ENGINE	ornin	e services sucri as	FTP of web Servers.				list of predefined
NETWORK FILTER	5	Save Settings	Don't Save Settings				server types. If you select one of the
MCCESS CONTROL WEBSITE FILTER	24 -	VIRTUAL SE	RVERS LIST	- - 11		1	bredefined server types, tick the arrow button next to the
		Name RHW-925	Application Name 🔻	Public Port 200	Protocol Both ▼	Schedule Always 🔻	
		IP Address 192.168.0.254	Computer Name 🔻	Private Port 200	256	Inbound Filter Allow All 🔻	

4.Execution MeterApp, enter the need of parameters. IP item which required the use of IP Tools software to learn the input

Project 1	Meter1
Meter name	Meter1
CH No.	3
Sampling time	1 Minutes
V IP	27.105.102.236
Port	101
Save file	/sdcard/ external_sd/ Lutron_App
Alarm Beeper	ON
Alarm SMS 1	
Alarm SMS 2	

#### 4-11.Client Mode(External network floating IP):

1.Simple schematic network:



- 2.The RHW-925 is set to Client mode, the relevant parameters are as follows:
  - 2-1.NetMode: Client
  - 2-2.SSID: RHW-925
  - 2-3.IP: 192.168.0.254
  - 2-4.Port: 200
  - 2-5.Gateway:192.168.0.1(With a smart phone in the App Store to download IP Tools,after the installation and execution can be learned)
- 3.into the IP Router do parameter settings, the contents of the red box set you can do

D-Lin	k						$\prec$
DIR-632		SETUP	ADVANCED	T00L5		STATUS	SUPPORT
VIRTUAL SERVER	VIR	TUAL SERVER					Helpful Hints
PORT FORWARDING	The	Virtual Server opti	on allows you to define a sir	ngle public port o	on your route	er for redirection	Check the
APPLICATION RULES	to an onlin	n internal LAN IP A e services such as	ddress and Private LAN port FTP or Web Servers.	if required. This	s feature is u	seful for hosting	Application Name drop down menu for a
QOS ENGINE	_						list of predefined
NETWORK FILTER	5	Save Settings	Don't Save Settings				select one of the
	24 -	VIRTUAL SE	RVERS LIST				predefined server
WEBSITE FILTER			(h)			1	button next to the
		Name		Public Port	Protocol	Schedule	
		RHW-925	Section Name ▼	200	Both 🔻	Always 🔻	
		IP Address	- (	Private Port	[nec.]	Inbound Filter	
		192.168.0.254	Computer Name 🔻	200	256	Allow All	

4.Apply for free transfer to www.noip.com address, the name of the

application will be transferred to the address input to the IP Router

D-Lin	k						$\prec$
DIR-632	SETUP	ADVA	NCED	TOOLS	STATU	5	SUPPORT
ADMIN TIME SYSLOG EMAIL SETTINGS SYSTEM FIRMWARE DYNAMIC DNS SYSTEM CHECK SCHEDULES	DYNAMIC DNS The DDNS feature alk name that you have p assigned IP address. N addresses. Using a DC your game server no Sign up for D-Link's Fr Save Settings	ows you to ho burchased (w Aost broadbar INS service pr matter what v ree DDNS serv Don't Sa	bst a server (Web, ww.whateveryour nd Internet Service ovider, your friend your IP address is. vice at <u>www.dlinkd</u> ave Settings	FTP, Game Serv nameis.com) with Providers assign s can enter your Idns.com	er, etc) using a da your dynamically dynamic (changing) host name to conne	omain ) IP ect to	Helpful Hints To use this feature, you must first have a Dynamic DNS account from one of the providers in the drop down menu. Hore
	DYNAMIC DNS Enable Dyr Serve H Usernan Passwo Verify Passwo	namic DNS : r Address : lost Name : me or Key : ord or Key : rd or Key : Timeout : Status :	Image: With the second seco	Selec	t Dynamic DNS Server		

5.Execution MeterApp, enter the need of parameters. IP item which required the use of IP Tools software to learn the input

Project 1 M	leter1
Meter name	Meter1
CH No.	3
Sampling time	1 Minutes
IP	27.105.102.236
Port	101
Save file	/sdcard/ external_sd/ Lutron_App
Alarm Beeper	ON
Alarm SMS 1	
Alarm SMS 2	

#### 4-12. Ethernet Mode connecter network floating (intenal network ):

1.Simple schematic network:



2.The RHW-925 is set to Client mode, the relevant parameters are as

follows: 2-1.IP: 192.168.0.254

- 2-2.Port: 200
- 2-3.Gateway: 192.168.0.1

3.RJ485 connecter model as 3-19, Fig1.

#### 4-13. Ethernet Mode connecter network floating (extenal network ):

1.Simple schematic network:



2. The RHW-925 is set to Client mode, the relevant parameters are as

follows:

2-1.IP: 192.168.0.254

2-2.Port: 200

2-3.Gateway: 192.168.0.1

3.RJ485 connecter model as 3-19, Fig1.

#### 4-14.Ethernet Mode is connected via the wireless bridge network

#### (External network fixed IP ):

1.Simple schematic network:



 $\ensuremath{\text{2.The RHW-925}}$  is set to Client mode, the relevant parameters are as

follows: 2-1.IP: 192.168.0.254

2-2.Port: 200

2-3.Gateway: 192.168.0.1

3. Enter the IP Router to set parameters, Set the contents of the red box.

D-Lin	k						$\prec$
DIR-632		SETUP	ADVANCED	TOOLS		STATUS	SUPPORT
VIRTUAL SERVER	VIR	TUAL SERVER					Helpful Hints
PORT FORWARDING	The	Virtual Server onti	on allows you to define a si	nale public port o	on your route	er for redirection	Check the
APPLICATION RULES	to an	internal LAN IP A	ddress and Private LAN por	t if required. This	s feature is u	seful for hosting	Application Name
QOS ENGINE	OTHER	e services sucri as	FIP of web Servers.				list of predefined
NETWORK FILTER	S	Save Settings	Don't Save Settings	)			server types. If you select one of the
ACCESS CONTROL WEBSITE FILTER	24 -	VIRTUAL SE	RVERS LIST		1	1. 1.	button next to the
		Name		Public Port	Protocol	Schedule	
	177	RHW-925	Application Name 🔻	200	Both 🔻	Always 🔻	
		IP Address		Private Port		Inbound Filter	
		192.168.0.254	< Computer Name 🔻	200	256	Allow All 🔻	

4.RJ485 connecter model as 3-19 , Fig1.

# 4-15.Ethernet Mode is connected via the wireless bridge network (External network Floating IP):

1.Simple schematic network:



2.The RHW-925 is set to Client mode, the relevant parameters are as follows:

2-1.IP: 192.168.0.254

- 2-2.Port: 200
- 2-3.Gateway: 192.168.0.1

3. Enter the IP Router to set parameters, Set the contents of the red box.

D-Lin	K						
DIR-632		SETUP	ADVANCED	TOOLS		STATUS	SUPPORT
VIRTUAL SERVER	VIR	TUAL SERVER					Helpful Hints
PORT FORWARDING	The	Virtual Server onti	on allows you to define a si	adle public port o	on your route	er for redirection	Chack the
APPLICATION RULES	to an	internal LAN IP A	ddress and Private LAN por	t if required. This	feature is u	seful for hosting	Application Name
QOS ENGINE	oniin	e services such as	FIP or web Servers.				list of predefined
NETWORK FILTER	S	iave Settings	Don't Save Settings	]			server types. If you
ACCESS CONTROL	74 -		RVERSIIST				predefined server
WEBSITE FILTER						n	button next to the
		Name		Public Port	Protocol	Schedule	
		RHW-925	Section Name ▼	200	Both 🔻	Always 🔻	
		IP Address		Private Port	Dec	Inbound Filter	

4. To www.dlinkddns.com apply for a free address, the application of the address name input to the IP Router.



- 5. When the Metro App is implemented, the required parameters are entered using the IP Tools software as SCREEN4-8-4 SCREEN4-8-5 or SCREEN4-9-4.
- 6.RJ485 connecter model as 3-19, Fig1.

#### 4-16.RS232 Function SERIAL OUTPUT

The instrument is provided an 3.5 mm dia. Phone socket

(3-7, Fig. 1) for RS232 computer interface socket.

The connector output is a 16 digits data stream which

can be utilized to the user's specific application.

A RS232 lead with the following connection will be

required to link the instrument with the PC or NB USB port or serial port.

Meter		PC (9W'D" Conne	ctor)
Center Pin ( 3.5 mm jac Ground/shie	k plug ) Id	Pin 4 Pin 2	22 K
		Pin 5	z.z n resister
Meter	USB-0 ☞=	1	NB , PC USB Connector

The 16 digits data stream will be displayed in the following format :

D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0

#### Each digit indicate the following status :

D15	Start Word				
D14	4				
D13	1~9				
D12 & D11	Annunciator for Display				
	01=°C	<b>02=</b> °F	04 = %RH		
D10	Polarity				
	0 = Positive 1 =	Negative			
D9	Decimal Point(DP), posi	tion from right to the left			
	0 = No DP, 1= 1 DP, 2 =	= 2 DP, 3 = 3 DP			
D8 to D1	Display reading, D1 = LSD, D8 = MSD				
	For example :				
	If the display reading is	1234, then D8 to D1 is : 0	0001234		
D0	End Word				

#### **RS232 setting**

Baud rate	9600
Parity	No parity
Data bit no.	8 Data bits
Stop bit	1 Stop bit