

/TLW-TEX2HE & /TLW-TEX3HE

USER MANUAL

Additional Manual for TEX-LCD series and TEX-LIGHT series



Manufactured by R.V.R ELETTRONICA S.p.A. Italy

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/TLW-TEX2HE & /TLW-TEX3HE - User Manual Version 1.1

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1. /TLW-TEX2HE & /TLW-TEX3HE Option

1.1 Preparation

1.1.1 Preliminary checks

Provide for the following (applicable to operating tests and putting into service):

- $\sqrt{}$ Connection cable kit including:
- Ethernet cable (cable with RJ45 connector, not included) for connection to ADSL router or LAN network;

or

- Crossover Ethernet cable (cable with RJ45 connector, not included) for direct connection to PC.
- 1.1.2 Connections
 - Connect the LAN output of /TLW-TEX2HE & /TLW-TEX3HE option to the appropriate input of your ADSL router or LAN network. If the connecting device is different, identify an equivalent.



Note : If you intend to connect it directly to a PC, it is necessary to use a crossover ethernet cable. This is a basic prerequisite to ensure equipment correct operation.

1.1.3 Dip Switch configuration



Figure 1.1: Dip Switch



	1	2	3	4	5	6	7	8
Config TX						x	x	Х
Not used	x	x	x	x	Х			

Table 1.2: Dip Switch

Dip Switch, from position 8 to position 6 (CONFIG TX), is to set as binary number based on the configuration number to which reference is made (for example the configuration 3 is equal to 110, or the configuration 6 is equal to 011).

TF

Note: for insights on possible configurations, and on right setting of dip switch, read the chapter on Configurations present in the following manual.

1.1.3.1 IIC addresses relating to configurations of transmitter

adr	TEX#1	HC o PA	PA	PA	PA	ΡΑ	ΡΑ
Config 01	1						
Config 02	1	2					
Config 03	1	2	3	4			
Config 04	1	2	3	4	5		
Config 05	1	2	3	4	5	6	
Config 06	1	2	3	4	5	6	7

Table 1.3: IIC address of equipment connected to telemetry



1.2 First Power-On and Set-Up

Perform this procedure upon first power-up and each time you make changes to the configuration this component is integrated into.

Once all connections previously described are performed, the equipment is ready for commissioning.

Follow the procedure below to open the **WUI** (Web User Interface):

1) Open your web browser on your PC, and connect to *http://192.168.0.244* address to connect to the **WUI** (if LAN IP address was previously modified, it is necessary to use the new one). At this point the following page opens:

🟧 R.V.R. Elettronica S.p.a	*	÷
Ravara	Web Administation for Test	<
Menu selection	Company Information:	
Maintenance: Info	RVR Elettronica broadcasting equipment since 1979 RVR Elettronica was founded in 1979 to manufacture Telecommunication and F.M. Broadcast equipment.	
Measure Alarm List Password	During these years RVR Electronica has formed an established group of companies composed of more than 200 professional figures, consolidating its leader position in the RM worldwide market.	
	The name of RVR has become synonymous of tradition, innovation, quality and reliability.	
	RVR is constantly engaged in guaranteeing the complete satisfaction of its customers.	
Administration:	In order to reach this target, RVR can count on a detailed sales organization supported by a qualified technical team.	
Command Alarm Delete	Besides RVR has a complete and innovative product range that allows advanced and customized production.	
Password	RVR uses an efficient quality control system to guarantee reliable products,	
Network Mail	and supports its customers with technical and commercial activities and training courses through its efficient after-sales service.	
SNMP	To learn more about our complete line of broadcast equipment, visit the internet site.	
	Web Interface Tested with:	
	E C C C C C C C C C C C C C C C C C C C	~

Menu 1

By factory the RVR uses the following adjustments:

- IP address: 192.168.0.244
- Netmask address: 255.255.255.0
- Gateway address: 192.168.0.1



Note : If address **http://192.168.0.244** does not work, check and set IP address as **192.168.0.XXX** (where XXX is a figure between 0 and 255, excluding 244 that is /**TLW-TEX2HE &** /**TLW-TEX3HE** option default address). To change the IP address, follow the instructions in the manual or in the online guide and technical help, specific for the Operating System you use.

 If you have changed the access mode, enter the User Name and Password previously saved. Enter your credentials to log on as administrator, or maintenance, and then click OK on the item..







Note : The username to log in as a maintenance is **user**, while the user name to log in as administrator is **admin**.

The user names are not modifiable by the user.

Connotti a 192 1	68 0 244	2 🕅
connetti a 172.1	00.0.244	<u> </u>
		G
Il server 192.168.0.: utente e una passwo	244 all'indirizzo config ord.	richiede un nome
<u>N</u> ome utente:	2	~
Password:		
	Memori <u>z</u> za passv	vord
	ОК	Annulla

Menu 2



Note : Log in as maintenance enables only readings inside the WUI. If the administrator password is not set, you can not enable the maintenance password.

3) Now the interface is ready to remotely read data and modify the various settings of the equipment.

1.3 Web User Interface (WUI)

The **WUI** (Web User Interface) allows you to adjust, modify or display the configuration variables and the operation data.

Once logged in, you will see the Main Menu that shows the possible selections.



Menu 3



The image shows the **Main Menu** logging in normally. If you log in without administrative privileges, and then only as a maintainer, in the **WUI** will be available only the readings.

The page that appears is divided into three frames:

- Title: it has the RVR logo and an identification of the current page displayed. It is located on the top of the page.
 If you still want return to the Main Menu, simply click on the RVR logo sited in all the submenus on top left.
- Navigation menu: it allows you to select the page to display. To enter into a submenu, select the name and then click on the item to enter.
- 3) **Body**: area where the page displays information about the selected menu.



1.3.1 Info Menu - Maintenance

Values found here are "live readings", and as such they can not be modified. To change the settings, use the **General menu** (chap. 1.3.5) by logging in as administrator.

This page shows the user the data of the exciter connected to the **/TLW-TEX2HE & /TLW-TEX3HE** interface:

+		
Web Administat Test	ion for	
Web Sofware Release: Web Sofware Date:	TCP2-010200 06/12/2010	
Device Date:	22/2/2011	
Local Date: Local Time:	22/2/2011 16:14	
Station Name:	Test	
	* Web Administat Test Web Sofware Release: Web Sofware Date: Device Date: Device Time: Local Date: Local Time: Station Name:	* Web Sofware Release: TCP2-010200 Web Sofware Date: 06/12/2010 Device Date: 22/2/2011 Device Time: 16:12 Local Date: 22/2/2011 Local Time: 16:14 Station Name: Test

Menu 4

```
WEB Software Release Shows the release of WEB firmware.
```

```
WEB Software Date
```

Shows the date of issue of WEB firmware.

Device Date

Shows the day stored on the exciter (dd/MM/yyyy).

Device Time

Shows the time stored on the exciter (hh:mm).

Local Date

Shows the day stored in your browser device (dd/MM/yyyy).

Local Time

Shows the time stored in your browser device (hh:mm).

Station Name

Shows the ID name of transmitting station.



1.3.2 Measure Menu - Maintenance

Values found here are "live readings", and as such they can not be modified. To change the settings, use the **Command Menu** (chap. 1.3.6) by logging in as administrator.

The upper part allows you to enable or disable the Auto-refresh by clicking on the relevant box.

With Auto-refresh enabled the measures are taken every 3 seconds ("Get Data ..") and gave available in a legible form by the current page ("Ready"). With Auto-refresh disabled the measures are frozen ("Stopped") at the time when you uncheck the box and gave available in a legible form by the current page.

This page shows the user the data of the exciter connected to the **/TLW-TEX2HE & /TLW-TEX3HE** interface:

Rever	Web Add Test	ministation	for		
	 Auto Refres 	h: Get data			
Menu selection	Forward Pwr	7 W	CMD LOW	Not Allowed	
Maintenance:	Reflected Pwr	0 W	NOM Power	101 %	
Info	Temperature	29 C	LOW Power	35 %	
Alarm List	Freq.	99 MHz			
Password	Mod.	0 KHz			
	Mod. L	0 KHz			
	Mod. R	0 KHz			
Administration:	PLL Lock	Present			
General	Audio Alarm	Present			
Command	Foldback	Absent			
Alarm Delete	Ext R.F. Mute	Absent			
Network	Ack ON	Present			
Mail	Ack OFF	Absent			
SNMP	Ack Nom	Absent			
	Ack Low	Present			
	FAULT Mains	Absent			
	CMD ON	Not Allowed			
	CMD OFF	Not Allowed			
	CMD NOM	Not Allowed			

Menu 5

Forward Power

Shows forward power of exciter.

Reflected Power Shows reflected power of exciter.

Temperature

Shows internal temperature reading of equipment.

Freq.

Shows operating frequency of exciter.

Mod.

Shows modulation of exciter.

Mod.L

Shows modulation on left channel of exciter.

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Mod. R
Shows modulation on right channel of exciter.
PLL LOCK
Shows the lock status at frequency set by PLL.
Audio Alarm
Shows the status of an impasse due to excessive SWR.
Foldback
Shows the triggered status of the foldback function (automatic reduction
of output power).
Ext R.F. Mute
Shows the status of power inhibition by an interlock signal.
Ack ON
Shows the power on status of the exciter.
Ack OFF
Shows the power off status of the exciter.
Ack Nom
Shows the delivery status of fixed nominal power.
Ack Low
Shows the delivery status of fixed reduced power.
FAULT Mains
Shows the status of alarm conditions that affect the proper functioning
and an
CMD ON Not Used
Not Used
CMD NOM Not Used
Not Used.
NOM Device
NOM FOWER Shows the efficiency about the adjustment of nominal power

LOW Power

Shows the efficiency about the adjustment of reduced power.



1.3.3 Alarm List Menu - Maintenance

Values found here are "live readings", and as such they can not be modified. To change the settings, use the **Alarm Delete Menu** (chap. 1.3.7) by logging in as administrator.

This page shows the user the data of the exciter connected to the **/TLW-TEX2HE & /TLW-TEX3HE** interface:

🖾 R.V.R. Elettronica S.p.a	+					Ŧ
Rayara	Web / Test	Administation	for			
		Ready!				~
Menu selection	TYPE 3	NAME Audio Absent	TIME 16:8	DATE 22/2/2011	VALUE 10	
Maintenance:	3	Low Forward power Audio Absent	10:21	22/2/2011	9	
Measure Alarm List Password	0 3 0 3 0	Low Forward power Audio Absent Low Forward power Audio Absent Low Forward power Low Forward power	10:21 10:20 9:22 9:22 18:30 18:29 17:41	28/1/2011 28/1/2011 28/1/2011 27/1/2011 27/1/2011 27/1/2011	7 6 5 4 3 2	
Administration: General Command Alarm Delete Password Network Mal SNMP	0	Low Forward power	17:27	27/1/2011	1	
	1					5

Menù 7

- Type Shows the alarm code.
- Name Shows the description for the error that led to event recording.
- Time Shows event recording time (hh:mm).
- Date Shows the day event was recorded (dd/MM/yyyy).
- Value Shows progressive number for event recording.



1.3.4 Password Menu - Maintenance

This page allows the configuration of login as a maintenance of **/TLW-TEX2HE & /TLW-TEX3HE** interface via WUI.

Please note that the User Name (**user**) can not be changed.

107 R.V.R. Elettronica S.p.a	*	
RayaRa	Web Administation for Test	
Menu selection		
Maintenance:		
Info		
Measure		
Alarm List		
Password	User Password:	Change
		Erase
Administration:		
General		
Command		
Alarm Delete		
Password		
Network		
Mail		
ONMP		

Menu 8

Password

Shows and set the password for maintenance user (enables read-only parameter).

The **Erase** button allows you to delete the password set.



1.3.5 General Menu - Administrator



Note : Access to this menu and modification of these parameters are only possible after login with administrator rights.

This page not only shows the user the information about the exciter connected to **/TLW-TEX2HE & /TLW-TEX3HE** interface, but also allows setting various parameters.

Below will be described only items that allow the modification of the parameter, with respect to the **Information menu** (chap. 1.3.1). Press the buttons to confirm your choice, pushing the logo **RVR**, instead, or wait at the time-out, the parameter will be set to the previous one.

🖾 R.Y.R. Elettronica S.p.a	÷			-
(RayaRa)	Web Administati Test	on for		~
Menu selection Maintenance:	Web Sofware Release: Web Sofware Date:	TCP2-010200 06/12/2010		
Info Measure Alarm List Password	Device Date: Device Time:	22/2/2011 16:16	Syncronize Clock	
Administration:	Local Date: Local Time:	22/2/2011 16:17		
Command Alarm Delete Password	Station Name: New Station Name:	Test	Change Name	
Mail SNMP	Main Mib: Specific Mib:	<u>rvr-main-mib.mib</u> rvr-tex-series-mib.mib		
	<			~

Menu 9

Device Date/Time

Allows you to align the time and date stored in the exciter with that of browser device, by pressing the **Synchronize Clock** button.

New Station Name

Setting of the station name. Write the name in the box that you want to assign, then press the **Change Name** button to apply the choice.

Main Mib

By pressing the MIB (Management Information Base) highlighted you can download onto your PC, or browser device, the general database for the management of devices in communications networks.

Specific Mib

By pressing the MIB (Management Information Base) highlighted you can download onto your PC, or browser device, the specific database for the management of devices in communications networks.



1.3.6 Command Menu - Administrator



Note : Access to this menu and modification of these parameters are only possible after login with administrator rights.

This page not only shows the user the information about the exciter connected to /TLW-TEX2HE & /TLW-TEX3HE interface, but also allows setting various parameters.

Below will be described only items that allow the modification of the parameter, with respect to the **Measure menu** (chap. 1.3.2). Press the buttons to confirm your choice, pushing the logo **RVR**, instead, or wait at the time-out, the parameter will be set to the previous one.

R.V.R. Elettronica 5.p.a	₩eb Adı Test	ministatio	on fo	r			
	Auto Refresh	h: Readyl					
Menu selection	Forward Pwr	7. W				Pot	l
Maintenance:	Reflected Pwr	0 W		NOM Power	101 %	Set	Set
Info	Temperature	29 C		LOW Power	35 %	-	Se
Measure Alarm List	Freq.	99 MHz	Set				1000
Password	Mod.	0 KHz					
	Mod. L	0 KHz					
	Mod. R	0 KHz					
Administration:	PLL Lock	Present					
General	Audio Alarm	Absent					
Command	Foldback	Absent					
Alarm Delete	Ext R.F. Mute	Absent					
Network	Ack ON	Present					
Mail	Ack OFF	Absent					
SNMP	Ack Nom	Absent					
	Ack Low	Present					
	FAULT Mains	Absent					
	CMD ON	Set					
	CMD OFF	Set					
	CMD NOM	Set					

Menu 10

Freq.

Remote adjustment of exciter frequency. This value, in MHz, can be modified according to one's own band in 0.1 MHz steps. Press **Set** to confirm the value inserted.

CMD ON

Press **Set** to change the logical state of the data.

CMD OFF

Press **Set** to change the logical state of the data.

CMD Nom

Press Set to change the logical state of the data.

CMD Low

Press Set to change the logical state of the data.



NOM Power

Remote adjustment regarding the nominal power of exciter. This value, in %, can be modified in the range 0 to 100, in steps of 1%. Press **Set** to confirm the value inserted.

LOW Power

Remote adjustment regarding the reduced power of exciter. This value, in %, can be modified in the range 0 to 100, in steps of 1%. Press **Set** to confirm the value inserted.



1.3.7 Alarm Delete Menu - Administrator



Note : Access to this menu and modification of these parameters are only possible after login with administrator rights.

Within this menu you can view the most recent alarms stored by the system, a new event will cause an automatic cancellation of the oldest. Using the **Reset** item in the bottom right side of menu, you can delete the list of all pending alarms.

		Ready!			
1enu selection	TYPE	NAME	TIME	DATE	VALUE
	3	Audio Absent	16:20	22/2/2011	11
laintenance:	3	Audio Absent	16:8	22/2/2011	10
Info	0	Low Forward power	16:7	22/2/2011	9
Measure	3	Audio Absent	10:21	28/1/2011	8
Alarm List	0	Low Forward power	10:20	28/1/2011	7
Password	3	Audio Absent	9:22	28/1/2011	6
	0	Low Forward power	9:22	28/1/2011	5
	з	Audio Absent	18:30	27/1/2011	4
	0	Low Forward power	18:29	27/1/2011	3
dministration:	0	Low Forward power	17:41	27/1/2011	2
General	0	Low Forward power	17:27	27/1/2011	1
Command					
Alarm Delete					
Password					
Network					
Mail					
SNMP					

Menu 11



1.3.8 Password Menu - Administrator



Note : Access to this menu and modification of these parameters are only possible after login with administrator rights.

This page allows the configuration of login as an administrator and maintenance of **/TLW-TEX2HE & /TLW-TEX3HE** interface via WUI.

Please note that the User Name (**admin** for administrator, or **user** for maintenance) can not be changed.

🖾 R.V.R. Elettronica S.p.a	+		-
(RaVaRa)	Web Administa Test	tion for	~
Menu selection			
Maintenance: Info Measure Alarm List Password	user Password:	Change	
Administration: General Command Alarm Delete	admin Degruperdu		
Passinoi d Network Mail SNMP	aunin Passivolu,	Erase All	
	8		>

Menu 12

user Password

Shows and set the password for user functions (parameter read-only enabling).

The **Erase** button allows you to delete the password set for maintenance.

admin Password

Shows and set the password for administrator functions (parameter reading and change enabling).

The **Erase All** button allows you to delete the password set both for the administrator and for the maintenance.



1.3.9 Network Menu - Administrator



Note : Access to this menu and modification of these parameters are only possible after login with administrator rights.

This page not only shows the user the information about **/TLW-TEX2HE & /TLW-TEX3HE** interface network connection, but also allows setting various parameters.

Press the **Change Settings** button to confirm selection; if you let timer to time out or press the **RVR** logo, the parameter setting will remain as previously set.

F

Note: to make changes within these sub-menus you need to have thorough technical knowledge of network management. It is recommended to have changes performed by trained or qualified personnel.

🟧 R.V.R. Elettronica S.p.a	÷		-
(RaYaRa)	Web Administa Test	tion for	
Menu selection Maintenance: Info Measure Alarm List Password	IP Address: SubNet Mask: Gateway: DNS1: DNS2: Mac:	192.168.0.244 255.255.255.0 192.168.0.1 192.168.0.250 192.168.0.250 00:20:4a:c6:db:f8	
Administration: General Command Alarm Delete Password Network Mail SNMP	New IP Address: New SubNet Mask: New Gateway: New DNS1: New DNS2:	192.168.0.244 192.168.0.1 192.168.0.250 192.168.0.250	
		Change S	Settings

Menu 13

IP address

Shows the number that unequivocally identifies, within a single network, the devices connected to an IT network that uses the IP standard (Internet Protocol).

Subnet Mask

Shows the subnet mask, necessary for the computer that must communicate with another IP address to know if it should route packages toward the gateway of its local network or use the address of the receiver local network.



Gateway

Shows gateway address. In simpler networks, there is only one gateway that forwards to the internet network all the outbound traffic. In more complicated networks where many subnets are available, each of them refers to a gateway that will route data traffic towards the other subnets or forward it to other gateways.

DNS1 server

Shows the first DNS server address (Domain Name System); in case the server should change the server hosting a service, or it is necessary to change its IP address, it is enough to change the DNS record, without changing client settings.

DNS2 server

Shows the second DNS server address (Domain Name System); in case the server should change the server hosting a service, or it is necessary to change its IP address, it is enough to change the DNS record, without changing client settings.

MAC Address

Shows the MAC (Media Access Control) address; this address is uniquely assigned to the ethernet network card present on exciter. It can be useful if you want to add in your router, or firewall, a list of MAC addresses of network cards authorized to connect to the network.

New IP address

Set the new IP (Internet Protocol) number.

New Subnet Mask

Set the new subnet mask

New Gateway

Set the new gateway address.

DNS1 server

Set the new first DNS server address (Domain Name System).

DNS2 server

Set the new second DNS server address (Domain Name System).

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1.3.10 Mail Menu (SMTP) - Administrator



Note : Access to this menu and modification of these parameters are only possible after login with administrator rights.

This page not only shows the user the information about **/TLW-TEX2HE & /TLW-TEX3HE** interface network connection, but also allows setting various parameters.

Press the **Change Settings** button to confirm selection; if you let timer to time out or press the **RVR** logo, the parameter setting will remain as previously set.



Note : the e-mails can be sent only via MX record, which is a DNS record that identifies the mail server associated with a domain. This feature can be useful if you want to use your mail server and it is absolutely necessary that the DNS domain supports this function for its proper functioning.



Note: to make changes within these sub-menus you need to have thorough technical knowledge of network management. It is recommended to have changes performed by trained or qualified personnel.

R.V.R. Electronica S.p.a	*		-
(RaVaRa)	Web Administati Test	ion for	~
Menu selection Maintenance: Info Measure Alarm List Password	Sender Address: Destination 1: Destination 2: Destination 3: Destination 4: Subject:	TCP1@rvr.it software@rvr.it Test	
Administration: General Command Alarm Delete Password Network Mal SNMP	Server Port: New Sender Address: New Destination 1: New Destination 2: New Destination 3: New Destination 4: New Subject: New Server Port:	25 TCP1@rvr.it software@rvr.it	
		Change Settings	

Menù 14

Sender Address

Shows the transmission address used for sending messages.

Destination 1

Shows the first address to which alarm warning mail messages shall be sent.



Destination 2

Shows the second address to which alarm warning mail messages shall be sent.

Destination 3

Shows the third address to which alarm warning mail messages shall be sent.

Destination 4

Shows the fourth address to which alarm warning mail messages shall be sent.

Subject

Shows the description of the "subject" field of the mail.

Server Port

Shows the port used by TCP transmission protocol.

New Sender Address

Set the new transmission address used for sending messages.

New Destination 1

Set the new first address to which alarm warning mail messages shall be sent.

New Destination 2

Set the new second address to which alarm warning mail messages shall be sent

New Destination 3

Set the new third address to which alarm warning mail messages shall be sent

New Destination 4

Set the new fourth address to which alarm warning mail messages shall be sent

New Subject

Set the new description of the "subject" field of the mail.

New Server Port

Set the new port used by TCP transmission protocol.

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1.3.11 SNMP Menu - Administrator



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Note : Access to this menu and modification of these parameters are only possible after login with administrator rights.

This page not only shows the user the information about **/TLW-TEX2HE & /TLW-TEX3HE** interface network connection, but also allows setting various parameters.

Press the **Change Settings** button to confirm selection; if you let timer to time out or press the **RVR** logo, the parameter setting will remain as previously set.

For more information regarding this menu, please read the chapter the **SNMP Telemetry** (Chapter 1.4).

Note: to make changes within these sub-menus you need to have thorough technical knowledge of network management. It is recommended to have changes performed by trained or qualified personnel.

R.Y.R. Elettronica S.p.a	∦ Web Administati Test	on for		
Menu selection Maintenance: Info Measure Alarm List Password	Actual Status: Read Community: Write Community: Primary Trap IP: Primary Trap Port: Secondary Trap IP: Secondary Trap Port:	enable public 192.168.0.41 162 192.168.0.41 162		
Administration: General Command Alarm Delete Password Network Mall SNMP	New Status: New Read Community: New Write Community: New Primary Trap IP: New Secondary Trap IP:	public private 192.168.0.41 192.168.0.41		
			Change Settings	

Menu 15

Actual Status

Shows the status of SNMP (Simple Network Management Protocol) service.

Read Community

Shows the set string for Read command that allows you to monitor the different variables of the system managed.

Write Community

Shows the set string for Write command that allows you to monitor the different variables of the system managed.



Primary TRAP IP

Shows the first identification number of the IP address set to send the TRAP signaling that configures the agent to send a special message to the occurrence of certain events.

Primary TRAP Port

Shows the first port number set by the TCP transmission protocol for the TRAP signaling that configures the agent to send a special message to the occurrence of certain events. The port can not be changed.

Secondary TRAP IP

Shows the second identification number of the IP address set to send the TRAP signaling that configures the agent to send a special message to the occurrence of certain events.

Secondary TRAP Port

Shows the second port number set by the TCP transmission protocol for the TRAP signaling that configures the agent to send a special message to the occurrence of certain events. The port can not be changed.

New Status

Set the status of SNMP (Simple Network Management Protocol) service.

- New Read Community Set the string for Read command.
- New Write Community Set the string for Write command.

New Primary TRAP IP

Set the first identification number of the IP address set to send the TRAP signaling.

New Secondary TRAP IP

Set the second identification number of the IP address set to send the TRAP signaling.



2. Connection via Modem

The telemetry option supports connectivity to the whole range of units of RVR's **TEX-LCD** and **TEX-LIGHT** family of products.

This section describes the features introduced with version **/TLW-TEX2HE & /TLW-TEX3HE** and the necessary steps for their proper configuration.

The telemetry option supports:

- Remote alarm reporting by sending SMS messages through a GSM modem or through a PSTN modem (dial-up) by sending an alarm message string to a connected PC.
- Telemetry, with all equipment parameters sent to the "TELECON" software through an (RS232);
- Remote controlling through an (RS232) connection to the "TELECON" software or through certain predetermined SMS messages if connected to an external GSM modem.
- Telemetry via internet through 10Base-T LAN/Ethernet network.

2.1 Remote alarm monitoring

The list of parameters monitored for the alarm management are:

- Exciter output power (forward power good "PgD");
- Reflected power at the exciter (reflected power good "PgR");
- Temperature state (OVER TEMPERATURE);
- Audio Signal Level;
- Mains voltage state (present or missing).

Factory default settings are as follows:

ALLARMI	TEMPI	SOGLIE
Potenza Diretta (Fwd Pwr)	25 Sec.	Power Good (PgD)
Potenza Riflessa (Rfl Pwr)	25 Sec.	Power Good (PgR)
Audio	325 Sec.	20 kHz
Sovratemperatura	25 Sec.	72°C
Alimentazione di rete (Mains)	25 Sec.	

Table 2.1

An inhibit time (start time) after power-on is provided to ensure false alarm prevention. When this inhibit time times out, the thresholds of alarm generation parameters are checked and remote alarms are sent if needed.

Alarm generation technique is outlined in the figure below; remote alarm delay, i.e. the amount of time the system waits before issuing a remote alarm after an alarm condition occurs is indicated in table 2.1. When appropriate, a new line is added to the alarm log stored in **/TLW-TEX2HE & /TLW-TEX3HE**, up to six lines maximum.





Figure 2.1

The alarm log may be reviewed using the "TELECON" software or through SMS (see relevant section).

WARNING: The mains alarm is triggered from the battery charger board; as a result, this board is required even when no batteries are installed. In the configuration without batteries, no alarm is generated; instead, an SMS message indicating a normal condition is sent upon next start-up.

When any one of the parameters listed above changes state, a text message with the following information is sent via modem (if fitted):

- Station Name.
- Station ID.
- State of measurements.

ES1.

Station Name: (string of 16 characters maximum) Station ID: (from 000 to 999) Forward Power OK Reflected Power OK Temperature OK Audio OK Mains OK



2.3 Telemetry

Equipment telemetry consists in the remote monitoring of all operating parameters and can only be achieved through serial cable or modem connection to the "TELECON" software.

2.4 Remote control

When the exciter is connected to the internal telemetry unit, it can be controlled from a PC with a suitable modem connection.

The "TELECON" software establishes connection with the station through a phone line and enables the following remote operations: alarm reset, transmitter power on/power off, power supply reduction, dummy load testing, etc., data evaluation to locate possible faults, identification of parts required for repair.

An alternative remote controlling option uses SMS messaging through a common GSM phone, in which case the equipment will respond as indicated in table 1.2.

Before querying the system using SMS messages, establish a connection using the "TELECON" software and set the provider service centre number and the telephone numbers authorised to send these commands to the devices.

Only in case of connection with external modem, the commands that can be sent are are shown as follows:



/TLW-TEX2HE & /TLW-TEX3HE

Comando		Risposta	Descrizione
INFO	Station Name: Station ID: FWD Power: RFL Power: Temp: Tx Local Alarm	<i>"nome della stazione"</i> (stringa di 16caratteri massimo) <i>"numero identificativo"</i> (da 000 a 999) (Potenza diretta espressa in W) (Potenza riflessa espressa in W) (Temperatura espressa in °C) (Stato trasmettitore ON o OFF) (Locale o Remoto) (Presenza o Assenza allarmi)	Informazioni sullo stato del trasmettitore
TXON	Station Name: Station ID: Tx is ON	<i>"nome della stazione"</i> (stringa di 16caratteri massimo) <i>"numero identificativo"</i> (da 000 a 999)	Accensione trasmettitore
TXOFF	Station Name: Station ID: Tx is OFF	<i>"nome della stazione"</i> (stringa di 16caratteri massimo) <i>"numero identificativo"</i> (da 000 a 999)	Spegnimento trasmettitore
LOWPWR	Station Name: Station ID: LowPwr OK	<i>"nome della stazione"</i> (stringa di 16caratteri massimo) <i>"numero identificativo"</i> (da 000 a 999)	Informazioni su bassa potenza
NOMPWR	Station Name: Station ID: NomPwr	<i>"nome della stazione"</i> (stringa di 16caratteri massimo) <i>"numero identificativo"</i> (da 000 a 999)	Informazione sulla potenza nominale
ALARM	Station Name: Station ID: Record:	<i>"nome della stazione"</i> (stringa di 16caratteri massimo) <i>"numero identificativo"</i> (da 000 a 999) (Invio degli ultimi 4 liste di allarmi memorizzate in memoria)	Lista allarmi in memoria
RESET	Station Name: Station ID: RESET allarmi m	<i>"nome della stazione"</i> (stringa di 16caratteri massimo) <i>"numero identificativo"</i> (da 000 a 999) emorizzati	Cancellazione allarmi in memoria
RESMOD	Nessuna Risposta	3	Reset e reinizzializzazione del modem
STATUS	Invia i messaggi c	li allarme se presenti	Reinvia il messaggio di stato degli allarmi
VERSION	Station Name: Station ID: <i>Versione App, Ve</i>	"nome della stazione" (stringa di 16caratteri massimo) "numero identificativo" (da 000 a 999) rsione Bios, Codice Tabella	Informazioni su versioni software

Table 2.2

F

Note: I Response time to SMS commands may vary with different GSM network providers; as a general rule, response time should not exceed 7-10 minutes maximum.

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3. Configurations of Transmitter System

Below are listed the several possible system configurations, the configuration that needs to assume on the dip switch and the screens obtainable via WEB.



Note: for further information on the Dip Switch, please read the section on Dip Switch Configuration present in this manual.

3.1 Configuration of Transmitter

3.1.1 Configuration of System 01

Composition:

- /TLW-TEX2HE & /TLW-TEX3HE (telemetry)
- TEX-LCD (exciter)



Configuration #01: System

3.1.1.1 Configuration of Dip Switch for System 01

	1	2	3	4	5	6	7	8
Config TX 1								

Configuration #01: Dip Switch



3.1.1.2 I²C Address for System 01

adr	TEX	HC o PA	PA	PA	PA	PA	ΡΑ
Config 01	1						

Configuration #01: I²C Address

3.1.1.3 Command Menu - Operator & Administrator for System 01

(RaYaRa)	Web Ad TEX-TES	ministation fo ST	r			
	 Auto Refresh 	h: Ready!				
Menu selection	Forward Pwr	0 W	CMD LOW		ot	
Maintenance:	Reflected Pwr	0 W	NOM Power	69 %		Set
Info	Temperature	27 C	LOW Power	20 %		Set
Alarm List	Freq.	98 MHz Set				
Password	Mod.	0 KHz				
	Mod. L	0.1 KHz				
	Mod. R	0.1 KHz				
Administration:	PLL Lock	Present				
General	Audio Alarm	Absent				
Command Name Dalate	Foldback	Absent				
Password	Ext R.F. Mute	Absent				
Network	Ack ON	Present				
Mail	Ack OFF	Absent				
SNMP	Ack Nom	Absent				
	Ack Low	Present				
	FAULT Mains	Absent				
	CMD ON	Set				
	CMD OFF	Set				
	CMD NOM	Set				

Configuration #01: Screen Command





3.1.2 Configuration of System 02

Composition:

- /TLW-TEX2HE & /TLW-TEX3HE (telemetry)
- TEX-LCD (exciter)
- PJ (amplifier)



Configuration #02: System

3.1.2.1 Configuration of Dip Switch for System 02

	1	2	3	4	5	6	7	8
Config TX 2								х

Configuration #02: Dip Switch

3.1.2.2 I²C Address for System 02

adr	TEX	HC o PA	ΡΑ	ΡΑ	PA	PA	ΡΑ
Config 02	1	2					

Configuration #02: I²C Address



3.1.2.3 Command Menu - Operator & Administrator for System 02

Ravara	Web Adn TEX-TES	ninistation fo T	r			
	Auto Refresh:	Ready!				
Menu selection	Forward Pwr	0 W	CMD OFF		Cot.	1
Maintenance:	Reflected Pwr	0 W	CMD NOM		Set	1
Info	Temperature	0 C	CMD LOW		Set	í
Measure Alarm List	Exc Freq.	98 MHz Set	NOM Power	69 %		Set
Password	Exc Mod.	0 KHz	LOW Power	20 %		Set
	Exc Mod. L	0.1 KHz				
	Exc Mod. R	0.1 KHz				
Administration:	Exc Fwd Pwr	0.3 W				
General	Exc Rfl Pwr	0.2 W				
Command	Exc PLL Lock	Present				
Alarm Delete Password	Exc Audio Alarm	Absent				
Network	Exc Foldback	Absent				
Mail	Exc R.F. Mute	Absent				
SNMP	Ack ON	Present				
	Ack OFF	Absent				
	Ack Nom	Absent				
	Ack Low	Present				
	FAULT Mains	Absent				
	CMD ON	Set				

Configuration #02: Screen Command



3.1.3 Configuration of System 03

Composition:

- /TLW-TEX2HE & /TLW-TEX3HE (telemetry)
- TEX-LCD (exciter)
- HC-LCD (hybrid coupler)
- 2x PJ (amplifier)



Configuration #03: System

3.1.3.1 Configuration of Dip Switch for System 03

	1	2	3	4	5	6	7	8
Config TX 3							х	

Configuration #03: Dip Switch

3.1.3.2 I²C Address for System 03

adr	TEX	HC o PA	PA	PA	PA	PA	ΡΑ
Config 03	1	2	3	4			

Configuration #03: I²C Address



3.1.3.3 Command Menu - Operator & Administrator for System 03

Ravara	Web Adn	ninistation fo T	or		
	Auto Refresh:	Ready!			
Menu selection	Forward Pwr	0 W	Ack OFF	Absent	
Maintenance:	Reflected Pwr	0 W	Ack Nom	Absent	
Info	Unbalanced Pwr	0 W	Ack Low	Present	
Measure Alarm List	Temperature	0 C	FAULT Mains	Absent	
Password	Exc Freq.	98 MHz Set	CMD ON	Set	
	Exc Mod.	0.1 KHz	CMD OFF	Set	
	Exc Mod. L	0.1 KHz	CMD NOM	Set	
Administration:	Exc Mod. R	0 KHz	CMD LOW	Set	
General	Exc Fwd Pwr	0.2 W	NOM Power	69 %	Set
Command	Exc Rfl Pwr	0.2 W	LOW Power	20 %	Set
Password	Exc PLL Lock	Present			
Network	Exc Audio Alarm	Absent			
Mail	Exc Foldback	Absent			
SNMP	Exc R.F. Mute	Absent			
	PA#1 Fwd Pwr	0 W			
	PA#1 Rfl Pwr	0 W			
	PA#2 Fwd Pwr	0 W			
	PA#2 Rfl Pwr	0 W			
	Ack ON	Present			

Configuration #03: Screen Command





3.1.4 Configuration of System 04

Composition:

- /TLW-TEX2HE & /TLW-TEX3HE (telemetry)
- TEX-LCD (exciter)
- HC-LCD (hybrid coupler)
- 3x PJ (amplifier)



Configuration #04: System

3.1.4.1 Configuration of Dip Switch for System 04

	1	2	3	4	5	6	7	8
Config TX 4							х	х

Configuration #04: Dip Switch

3.1.4.2 I²C Address for System 04

adr	TEX	HC o PA	ΡΑ	PA	PA	PA	ΡΑ
Config 04	1	2	3	4	5		

Configuration #04: I²C Address



3.1.4.2 Command Menu - Operator & Administrator for System 04

RayaRa	Web Adn TEX-TES	ninistation fo T	or			
	 Auto Refresh: 	Ready!				
Menu selection	Forward Pwr	0 W	PA#3 Rfl Pwr	0 W		
Maintenance:	Reflected Pwr	0 W	Ack ON	Present		
Info	Unbalanced Pwr	0 W	Ack OFF	Absent		
Measure Alarm List	Temperature	0 C	Ack Nom	Absent		
Password	Exc Freq.	98 MHz Set	Ack Low	Present		
	Exc Mod.	0.3 KHz	FAULT Mains	Absent		
	Exc Mod. L	0.1 KHz	CMD ON	Set	t	
Administration:	Exc Mod. R	0.3 KHz	CMD OFF	Set	t .	
General	Exc Fwd Pwr	0.2 W	CMD NOM	Set	t	
Command	Exc Rfl Pwr	0.2 W	CMD LOW	Set	t	
Alarm Delete Password	Exc PLL Lock	Present	NOM Power	69 %		Set
Network	Exc Audio Alarm	Absent	LOW Power	20 %		Set
Mail	Exc Foldback	Absent				
SNMP	Exc R.F. Mute	Absent				
	PA#1 Fwd Pwr	0 W				
	PA#1 Rfl Pwr	0 W				
	PA#2 Fwd Pwr	0 W				
	PA#2 Rfl Pwr	0 W				
	PA#3 Fwd Pwr	0 W				

Configuration #04: Screen Command





3.1.5 Configuration of System 05

Composition:

- /TLW-TEX2HE & /TLW-TEX3HE (telemetry)
- TEX-LCD (exciter)
- HC-LCD (hybrid coupler)
- 4x PJ (amplifier)



Configuration #05: System

3.1.5.1 Configuration of Dip Switch for System 05

	1	2	3	4	5	6	7	8
Config TX 5						х		

Configuration #05: Dip Switch

3.1.5.2 I²C Address for System 05

adr	TEX	HC o PA	ΡΑ	PA	PA	PA	ΡΑ
Config 05	1	2	3	4	5	6	

Configuration #05: I²C Address



3.1.5.3 Command Menu - Operator & Administrator for System 05

RAVARA	Web Adn	ninistation fo T	r			
	 Auto Refresh: 	Ready!				
Menu selection	Forward Pwr	0 W	DA#3 Dfl Dwr	0 W		
Maintenance:	Reflected Pwr	0 W	PA#4 Fwd Pwr	0 W		
Info	Unbalanced Pwr	0 W	PA#4 Rfl Pwr	0 W		
Measure Alarm List	Temperature	0 C	Ack ON	Present		
Password	Exc Freq.	98 MHz Set	Ack OFF	Absent		
	Exc Mod.	0.1 KHz	Ack Nom	Absent		
	Exc Mod. L	0.3 KHz	Ack Low	Present		
Administration:	Exc Mod. R	0 KHz	FAULT Mains	Absent		
General	Exc Fwd Pwr	0.3 W	CMD ON	Se	et	
Command	Exc Rfl Pwr	0.2 W	CMD OFF	Se	et	j
Alarm Delete Password	Exc PLL Lock	Present	CMD NOM	Se	et)
Network	Exc Audio Alarm	Absent	CMD LOW	Se	et)
Mail	Exc Foldback	Absent	NOM Power	69 %		Set
SNMP	Exc R.F. Mute	Absent	LOW Power	20 %		Set
	PA#1 Fwd Pwr	0 W				
	PA#1 Rfl Pwr	0 W				
	PA#2 Fwd Pwr	0 W				
	PA#2 Rfl Pwr	0 W				
	PA#3 Fwd Pwr	0 W				

Configuration #05: Screen Command



R.V.A

3.1.6 Configuration of System 06

Composition:

- /TLW-TEX2HE & /TLW-TEX3HE (telemetry)
- TEX-LCD (exciter)
- HC-LCD (hybrid coupler)
- 5x PJ (amplifier)



Configuration #06: System

3.1.6.1 Configuration of Dip Switch for System 06

	1	2	3	4	5	6	7	8
Config TX 6						х		х

Configuration #06: Dip Switch

3.1.6.2 I²C Address for System 06

adr	TEX	HC o PA	PA	PA	ΡΑ	PA	ΡΑ
Config 06	1	2	3	4	5	6	7

Configuration #06: I²C Address



3.1.6.3 Command Menu - Operator & Administrator for System 06

Rayara	Web Adn TEX-TES	ninistation fo T	r			
	Auto Refresh:	Ready!				
Menu selection	Forward Pwr	0 W	PA#3 Rfl Pwr	0 W		
Maintenance: Info Measure Alarm List Password Administration: General Command Alarm Delete Password Network	Reflected Pwr	0 W	PA#4 Fwd Pwr	0 W		
	Unbalanced Pwr	0 W	PA#4 Rfl Pwr	0 W		
	Temperature	0 C	PA#5 Fwd Pwr	0 W		
	Exc Freq.	98 MHz Set	PA#5 Rfl Pwr	0 W		
	Exc Mod.	0.1 KHz	Ack ON	Present		
	Exc Mod. L	0.3 KHz	Ack OFF	Absent		
	Exc Mod. R	0.1 KHz	Ack Nom	K Nom Absent		
	Exc Fwd Pwr	0.1 W	Ack Low	Present		
	Exc Rfl Pwr	0.2 W	FAULT Mains	Absent		
	Exc PLL Lock	Absent	CMD ON		Set	
	Exc Audio Alarm	Absent	CMD OFF		Set	
Mail	Exc Foldback	Absent	CMD NOM		Set	
SNMP	Exc R.F. Mute	Absent	CMD LOW		Set	
	PA#1 Fwd Pwr	0 W	NOM Power	69 %		Set
	PA#1 Rfl Pwr	0 W	LOW Power	20 %		Set
	PA#2 Fwd Pwr	0 W				
	PA#2 Rfl Pwr	0 W				
	PA#3 Fwd Pwr	0 W				

Configuration #06: Screen Command



4. SNMP Telemetry

SNMP (Simple Network Management Protocol) is a worlwide protocol that allows the management and supervision of the equipment connected to the network.

Measurements and commands are described by a MIB (Management Information Base), which is a list of OID (Object Identifi er). Each OID is a variable that can be written (SET) or read (GET) through a NMS (Network Management System) compatible with SNMP.

The MIB is a text file written in ASN.1 and it is imported from the NMS in order to know what OID can be expected by the AGENT and how to interpret the information received.

Note: The user can not freely distribute the MIB, unless written authorization issued by the manufacturer. The MIB is property of the manufacturer.



Note: The MIB files are downloaded in the web section or requested separately to the manufacturer.

The SNMP version used in this application is the v2, then is also compatible with v1 NMS systems, except in the TRAP receiving section.

Here is the list of MIB necessary for equipments of TEX-LCD RVR's equipments:

Mib file
🌆 . \mibs\RVR\rvr-main-mib.mib.xml
http://wibs\RVR\rvr-tex-series-mib.mib.xml المالية المالية المالية المالية المالية المالية المالية المالية الم

Figure 1



Note: Use a MIB BROWSER (not included) to use the MIB of RVR equipments.



4.1 Reading of the Measures (Read)

Each transmitter has a range of measures that can be read. Please refer to MIB for a detailed description of each measurement.



Note: In the following examples is used a proprietary MIB browser, but any MIB Browser can be used.

Nell'esempio seguente, la misura di Forward Power viene indicata come READONLY:



Figure 2

Into the MIB are specified the range and description of each variable, in this case the forward power and possible alarms, which are reported into the description box of browser. If the READ ONLY and MANDATORY conditions are present, they mean that the value is been obtained.



4.2 Settings of the Measures (Write)

Similarly to readings and settings of the measurements, the commands have a set of OID that are only in writing mode.

Tipically the value of command are read as "1"; the user must send a "2" as value to send a command. No other values are accepted as a command.

Usually the commands are one-shot toggle. In other words, if the transmitter is turn "ON" (value "2" on set-transmitter-on), the next command is a turn "OFF" (value "2" on set-transmitter-off).

In the following example, the command of Set-Transmitter-On is indicated as READWRITE:

📄 📄 tx-setting	gs	1.3.6.1.4.1.13963.4.100.10.1.10.1			
- 🗹 🗼 se	et-trasmitter-on	1.3.6.1.4.1.13963.4.100.10.1.10.1.1			
🗹 🧇 se	et-trasmitter-off	1.3.6.1.4.1.13963.4.100.10.1.10.1.3			
- 🗹 🧇 se	et-trasmitter-nominal-pwr	1.3.6.1.4.1.13963.4.100.10.1.10.1.4			
- 🗹 🧇 se	et-trasmitter-lower-pwr	1.3.6.1.4.1.13963.4.100.10.1.10.1.5			
- 🔽 🧇 a	md-trasmitter-percent-pwr-nom	1.3.6.1.4.1.13963.4.100.10.1.10.1			
- 🔽 🔌 a	md-trasmitter-percent-pwr-low	1.3.6.1.4.1.13963.4.100.10.1.10.1			
- 🛅 pa-settin	igs	1.3.6.1.4.1.13963.4.100.10.1.10.2			
📄 🛅 exc-setti	ngs	1.3.6.1.4.1.13963.4.100.10.1.10.3			
🖨 🛅 exc1-	-settings	1.3.6.1.4.1.13963.4.100.10.1.10.3.1			
	cmd-exciter-1-freq-set	1.3.6.1.4.1.13963.4.100.10.1.10.3			
🛄 🦾 🛅 traps-tex-sei	ries	1.3.6.1.4.1.13963.4.100.10.1.210			
🛅 alarm-settings		1.3.6.1.4.1.13963.4.100.10.101			
🖨 🛅 pwr-alm-settings		1.3.6.1.4.1.13963.4.100.10.101.1			
🖨 🛅 tx-pwr-a	lm-settings	1.3.6.1.4.1.13963.4.100.10.101.1.1			
🖨 🛅 tx-alr	m-fwdpower	1.3.6.1.4.1.13963.4.100.10.101.1			
Node name	set-trasmitter-on				
Oid	1.3.6.1.4.1.13963.4.100.10.1.10.1.1 (fr	rom RVR-TEX-SERIES-MIB)			
Access	ReadWrite				
Status	Mandatory				
Syntax	Enumeration [INT]				
Description	set exciter on.				

Figure 3

Into the MIB are specified the range and description of each variable, in this case is shown the description of command brought in information box of your browser.



4.3 Settings of the TRAP

For each TRAP can be set:

- Enable/disable the send of TRAP.
- The maximum value (MAX) is the fi xed point beyond which is sent a TRAP.
- The minimum value (MIN) is the fi xed point below which is sent a TRAP.
- The hysteresis value is a nominal value that the system adds (or subtracts) to real value in order to exit from alarm condition.
 In other words, it is helpful to avoid situations of continuous alarm, if readout is very close to the set point alarm.



Figure 4

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4.4 Sending of the TRAP

The system properly configured is capable to sending TRAP up to two different addresses. Different addresses can be set using the OID presents in the main MIB.

The generation and sending happens if the parameter exceeds the maximum and minimum set up and as you can see the hysteresis is a protected area in which the alarm is not sent.



Figure 5

Note: the hysteresis value shall be properly adjusted to not overlap to the distance between the minimum (MIN) and the maximum value (MAX).

Inside the generated TRAP are indicated:

- Progressive number of the TRAP.
- Date of generation.
- Time of generation.
- The OID and its instantaneous value.

The TRAP that you can set are the ones shown in the picture below:

1.3.6.1.4.1.13963.4.100.10.1.210
1.3.6.1.4.1.13963.4.100.10.1.210
1.3.6.1.4.1.13963.4.100.10.1.210
1.3.6.1.4.1.13963.4.100.10.1.210
1.3.6.1.4.1.13963.4.100.10.1.210
1.3.6.1.4.1.13963.4.100.10.1.210
1.3.6.1.4.1.13963.4.100.10.1.210
1.3.6.1.4.1.13963.4.100.10.1.210
1.3.6.1.4.1.13963.4.100.10.1.210
1.3.6.1.4.1.13963.4.100.10.1.210

Figure 6

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5. Connecting to Internet network

In order to connect the system to the public network , you must have an internet connection typically provided through a router with NAT (Network Address Translation), which allows devices connected to the LAN to go out with the number router's public IP and protect any attempts at forcing.

In case you have connecting directly with the public IP address on the LAN socket is advisable to insert a router / firewall to avoid exposing the system /TLW-TEX2HE & /TLW-TEX3HE directly to the public network but manage only the ports used by /TLW-TEX2HE & /TLW-TEX3HE for the functions of the WEB interface, SNMP, and SMTP.

The system uses incoming port 80, can not be changed, such as web interface visible from any Web Browser and port 161 can not be changed, such as SNMP port.

For sending the email **/TLW-TEX2HE & /TLW-TEX3HE** uses port 25, modifiable, and port 162 can not be changed, for the sending of SNMP Trap.

To ensure that the **/TLW-TEX2HE & /TLW-TEX3HE** is visible from the outside is necessary that the router / firewall is set up port forwarding, the function can have different names depending on the brand of your router.

The public port 80 from IP to the IP of /**TLW-TEX2HE &** /**TLW-TEX3HE** for WEB and port 161 of the public interface to the IP of /**TLW-TEX2HE &** /**TLW-TEX3HE** for SNMP data.

To ensure that the unit can send the Trap and the Email needs to be able to use the network at its output ports 162 for Trap and the port 25 for email.

To send the e-mail system /TLW-TEX2HE & /TLW-TEX3HE uses the MX record for the target domain DNS asked that must be set correctly in the appropriate fields otherwise not be able to send emails.

Also for the emails you must make sure that the destination server accept email from the public IP of our digestive system because the ships directly to the destination SMTP server without going through a server forward as is usual practice for mailers electronics installed on personal computers.

The apparatus as said default IP is set to RVR as 192.168.0.244 and will be adjusted on the network configured as your router's LAN port is used for port forwarding.

If you have multiple devices connected to the LAN after the router is necessary to use different ports on the public interface that will be routed to the fixed ports of the devices /TLW-TEX2HE & /TLW-TEX3HE must have a LAN IP different from each other.

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- /TLW-TEX2HE & /TLW-TEX3HE#1 IP 192.168.0.244 Port forwarding port 80
 > port 80 of 192.168.0.244
- /TLW-TEX2HE & /TLW-TEX3HE#1 IP 192.168.0.244 Port forwarding port 161
 > port 161 of 192.168.0.244
- /TLW-TEX2HE & /TLW-TEX3HE#2 IP 192.168.0.245 Port forwarding port 81
 > port 80 of 192.168.0.245
- /TLW-TEX2HE & /TLW-TEX3HE#2 IP 192.168.0.245 Port forwarding port 163
 > port 161 of 192.168.0.245

With this configuration, the apparatus /**TLW-TEX2HE &** /**TLW-TEX3HE** # 1 will be visible from WEB as http://public.ip and apparatus TLK # 2 will be visible from as http://public.ip:81 WEB, SNMP and how you must use port 161 to see the /**TLW-TEX2HE &** /**TLW-TEX3HE** # 1 and port 163 to see the /**TLW-TEX2HE &** /**TLW-TEX3HE** # 2.

To send the Trap or Email being output there is no problem, as long as there are no restrictions on using ports 25 and 162 are wanted by the service provider.

To know the public IP of our apparatus is desirable to have a FIXED IP connection service that is provided by the provider, if the service has a dynamic IP you will have to rely on a DNS service that gives a name to our IP and keep updated in the event of a change of IP in order to reach the /TLW-TEX2HE & /TLW-TEX3HE always writing the same name.

This service is provided by many providers, some free and some paid, and usually some routers include this function that can handle some of the service providers, and in case you need to use this service will need to be programmed into your router by following the instructions in that, given the various methods used to manage this function, we can not include this function in the system **/TLW-TEX2HE & /TLW-TEX3HE**.

In case your nework /TLW-TEX2HE & /TLW-TEX3HE has many systems connected to the Internet the safest way to manage and functional systems is to create a VPN between all stations and the headquarters in order to have all the devices in the same network in order to view them directly with their IP without the limitations of different ports for devices in the same location, not all routers have this programming possibilities, limits the output ports and having to manage any dynamic IP with a DNS service.

In this case, the customer will have to rely on a company that specializes in networks to configure your VPN between locations.









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