

/TLW-TEX-E-2HE & /TLW-TEX-E-3HE

USER MANUAL

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Supplementary Manual for TEX-LCD family and TEX-LIGHT family



Manufactured by R.V.R. ELETTRONICA Italia

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/TLW-TEX-E-2HE & /TLW-TEX-E-3HE - User Manual Version 1.2

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Table of Contents

1.	Option /TLW-TEX-E-2HE & /TLW-TEX-E-3HE	1
1.1	Preparation	1
1.2	Initial start-up and setup	1
1.3	Web User Interface (WUI)	3
2.	SNMP Telemetry	24
2.1	MAIN MIB Description	24
2.2	SPECIFIC MIB Description	25
3.	Connecting to Internet network	31



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ii



1. Option /TLW-TEX-E-2HE & /TLW-TEX-E-3HE

1.1 Preparation

1.1.1 Preliminary checks

Perform setup as follows (valid for both operating tests and final commissioning):

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

or

- Crossover Ethernet cable (not included) for direct connection to PC.
- 1.1.2 Connections
 - Connect the LAN output of option /TLW-TEX-E-2HE & /TLW-TEX-E-3HE to the appropriate input of your ADSL router or LAN network. If the connecting device is different, identify an equivalent output.

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Note: 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 correct operation of the equipment.

1.2 Initial start-up and setup

Follow the instructions below in case of initial power up or after making a change to the configuration in which this component is integrated.

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

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

 Open your web browser on your PC, and connect to the address http://192.168.0.244 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:



/TLW-TEX-E-2HE & /TLW-TEX-E-3HE

B.W.R. WEB-INT		ONLINE (
LETRONCA		1
	USER TYPE	
	USER Y	
	ENTER	
	SWITCH TO DAILY THEME	
There have seen five Elements	ANY DESERVES was founded in 1979 to manufacture feato-smallesteel and 1.0. Weakcast examination. Not formed an estimation of powers of networker of two may be preference found concentrating in lander powers in the PH washington in	where the second se
	The needs of IVM can be set or entry the set of basilities, becaution, usably and reliability. In the complete settlember of he settlember, in a new to can't this steps, FVX can recent as a detailed who represented and a settlember of the settlem	
www.usacianis/ficture-guality-control and	Residue DVR has a consistent and incorrection product range that down advances and consected approximations on to quarknow products, and popports to concerned with technological contraction addicates and contract metage to attract, whereas the sector of the sector of	an bervice.
	To least more about the compress the of browdcest sourceset, visit car websits.	
20U00#6		telemetry

Menu 1

The RVR has the following default settings:

- 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 the IP address* as *192.168.0.XXX* (where XXX is a figure between 0 and 255, excluding 244 that is /TLW-TEX-E-2HE & /TLW-TEX-E-3HE 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.

F

l f

Note: The username to log in as a user is **user**, that one to enter as operator is **operator**, while the username to log in as administrator is **admin**. The usernames are not modifiable by the user.

Autenticazione ri	chiesta 📃 🏹
?	http://109.115.188.14:243 richiede un nome utente e una password. Il sito riporta: "admin"
Nome utente: Password:	
	OK Annulla

Menu 2



Note: Login as user enables read-only mode on the WUI. If the administrator password is not set, it cannot be enabled for the user or operator.

- 3) Change the parameters according to your needs.
- 4) The interface is now ready to remotely read data and modify the various settings of the device.



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.

After access is made, the **Main Menu** opens and shows possible viewing options. This picture shows the **Main Menu** after access:

RaVaRa WEB-INT		ONLINE
LETTRONCA	USER TYPE	
	USER ~)	
	ENTER	
	OWITCH TO DAME THEME	
	EDITIONING HIS TWINTED INTERT TO HARDBODY TORONOMICSTON AND F.P. SYNADOX CONTINUES.	
	In Introduction proport Contractus contracted of more than 200 professional flavore-consolidation of the set work back in the first work back in the set of the s	
General With value as afficient quality control contain to guarda	as 51% has a complete and increasing provided range has also before all and complete and teams of an excitation of the second se	
	TE MAIN THE EXPLICIT OF CONDITION OF A DISCOULD SAUDOWING HIST OF WALLAND.	
20⊍⊘0#≰		telemetry

Menu 3

To enter in one of the sub-menus, select the name and then click on the item to enter.

To go back to **Main Menu**, just press the F5 key on your computer's keyboard to force the WEB page reload.

The page that appears is divided into three frames:

- 1) **Title**: it has the RVR logo and an identification of the current page displayed. It also displays the status of the device, whether online or not. It is located at the top of the page.
- 2) Navigation menu: it allows you to select the page to display. To enter in one of the sub-menus, select the name and then click on the item to enter. It is located at the top right and can be activated by pressing the hamburger icon.
- 3) Body: area where the page displays information about the selected menu. From the Main Screen it is possible to select the type of user between: User, Operator) and Admin; and to select the type of display of the WEB page, which can be normal view or dark mode.



1.3.1 Info Menu - User

Values found here are "live readings", and as such they cannot be modified. To change the settings, use the **operator** or **administrator** menu.

This page shows the user the data of the exciter to which the **/TLW-TEX-E-2HE & /TLW-TEX-E-3HE** interface is connected:

Menu 4

Firmware Release

Shows the firmware release of TEX-LCD or TEX-LIGHT.

Firmware Date

Shows the firmware release date of TEX-LCD or TEX-LIGHT.

Conf. Tab

Shows the Configuration Table loaded on TEX-LCD or TEX-LIGHT.

WEB GUI Release

Shows the release of the WEB firmware.

WEB GUI Date

Shows the release date of the WEB firmware.

Local Date

Displays the set date of the internet navigation device.

Local Time

Displays the set time of the internet navigation device.

- Device Date Displays the date set on the TEX-LCD or TEX-LIGHT device.
- Device Time Displays the time set on the TEX-LCD or TEX-LIGHT device.
- Station Name Shows the ID name of the transmitting station.

Code FSK

Shows the FSK code of the transmitting station.



1.3.2 Measures Menu - User

Values found here are "live readings", and as such they cannot be modified. To change the settings, use the **operator** or **administrator** menu.

This page shows the user the data of the exciter connected to the **/TLW-TEX-E-2HE & /TLW-TEX-E-3HE** interface:

WEB-INT		ONLINE (
. R.F. POWER OFF		\cap
O PLL LOCK		
FOLDBACK		(0) (25)
EXT B.F. HUTE		$\left(\begin{array}{c} \underline{0} \\ \underline{\mathbf{v}} \end{array}\right) \left(\begin{array}{c} \underline{25} \\ \underline{\mathbf{v}} \end{array}\right)$
FIX DISABLED		
ALARM AUDIO		R.F. EFFICIENCY TEMPERATURE
O W	28 v	100 Mhz
0 W	0.2 A	20 %
DEVIATION		39 KHZ
• LEFT		0 %
• BIGHT		0%
• mastr		

Menu 5

RF Power

Shows the power status of the exciter.

PLL

Shows the lock status at frequency set by the PLL.

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.

FSK

Shows the activation of status of FSK code transmission of the exciter.

Audio Alarm

Shows the status of an impasse due to excessive SWR.

RF Efficiency

Shows efficiency of the exciter expressed in %.

Temperature

Shows the internal temperature reading of the device expressed in °C.

Forward R.F. Power

Shows the forward power of the exciter expressed in W.

Reflected R.F. Power

Shows the reflected power of the exciter expressed in W.

VPA Power Supply

Shows the amplifier module voltage of the exciter expressed in V.

Rev. 1.2 - 29/11/19



IPA Power Supply
Shows the amplifier module current of the exciter expressed in A.
Frequency Settings
Shows the operating frequency of the exciter expressed in MHz.
PWR Preset Settings

Shows the power percentage of the exciter expressed in %.

Deviation

Shows deviation of the exciter expressed in kHz.

Left

Shows modulation on the left channel of the exciter expressed in kHz.

Right

Shows modulation on the right channel of the exciter expressed in kHz.



1.3.3 Power Events Menu - User



Note: Access to this menu, and any modification of the parameters, is possible only if the device supports the clock function (RTC) inside it.

Values found here are "live readings", and as such they cannot be modified. To change the settings, use the **operator** or **administrator** menu.

This page shows the user the time and date of the device connected to the **/TLW-TEX-E-2HE & /TLW-TEX-E-3HE** interface:

R.V.R. WEB-INT			ONLINE (
ELETTRONCA POWER DIGHTS			
evens	1945	POWDR	ACTIV
MONDAY #1	(16:60)	10 %	C
MONDAY #2	(20:32)	(20 %)	C
TUESDAY #1	(16:51)	11 %	0
TUESDAY #2	20:20	66 %	c
WEDNESDAY #	16:48	(49 %)	C
WEDNESDAY #2	(22:10)	(35 N)	0
THURSDAY m	(17:50)	(89 %)	0
THURSDAY #2	(16:59)	(23.5)	0
FRIDAY #1	12:50	118	0
FRIDAY #2	12:58	(10 S)	0
SATURDAY #	(8-38)	10 %	0
SATURDAY #2	12:39	(85 %)	0
SUNDAY #1	(11:40)	13 %	0
SUNDAY #2	(12:41)	(77.5)	0
USER			STATUS (

Menu 6

Monday #1

Display of the first event on Monday when the power variation set as a percentage occurs.

Monday #2

Display of the second event on Monday when the power variation set as a percentage occurs.

Tuesday #1

Display of the first event on Tuesday when the power variation set as a percentage occurs.

Tuesday #2

Display of the second event on Tuesday when the power variation set as a percentage occurs.

Wednesday #1

Display of the first event on Wednesday when the power variation set as a percentage occurs.

Wednesday #2

Display of the second event on Wednesday when the power variation set as a percentage occurs.

Thursday #1

Display of the first event on Thursday when the power variation set as a percentage occurs.



Thursday #2

Display of the second event on Thursday when the power variation set as a percentage occurs.

Friday #1

Display of the first event on Friday when the power variation set as a percentage occurs.

Friday #2

Display of the second event on Friday when the power variation set as a percentage occurs.

Saturday #1

Display of the first event on Saturday when the power variation set as a percentage occurs.

Saturday #2

Display of the second event on Saturday when the power variation set as a percentage occurs.

Sunday #1

Display of the first event on Sunday when the power variation set as a percentage occurs.

Sunday #2

Display of the second event on Sunday when the power variation set as a percentage occurs.



1.3.4 Mail Menu - User

Values found here are "live readings", and as such they cannot be modified. To change the settings, use the **operator** or **administrator** menu.

This page shows the user the time and date of the device connected to the /TLW-TEX-E- 2HE & /TLW-TEX-E-3HE interface:

SENDER ADDRESS	TCPI	WRIT			
SESTINATION 1					
DESTINATION 2.					
DESTINATION 3:					
DESTINATION 4					
watect:	TEST				
SERVER PORT:	25				
	AUTO		TION PARAMETERS -		
NORWARD POWER (W)	AUTO ar	ONABLE	RIM	яла	HYSTEREMS
FORWARD FOWER (W)	AUTO st @ @	emarke F (0	rin)@		HVITERENS
REFLECTED POWER (W)	AUTO # @ @	044.8.2 F () F ()	RIM		HYSTERENS
	AUTO st @ @	044.8.2 F () F ()	rin)@		HYSTERENS

Menu 6

Sender Address

Display of the sender's address used to send messages.

Destination 1

Display of the first destination address used to send messages in case of alarms.

```
Destination 2
```

Display of the second destination address used to send messages in case of alarms.

Destination 3

Display of the third destination address used to send messages in case of alarms.

Destination 4

Display of the fourth destination address used to send messages in case of alarms.

Subject

Customised subject of the email used to send alarm messages.

Server Port

Display of the port used by the TCP transmission protocol.

Auto Mail Generation Parameters

Display of the parameters configured for transmission of the alarm message.



1.3.5 Mail Menu - Operator & Administrator



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

This page shows the user the alarms relating to the exciter connected to the /TLW-TEX-E-2HE & /TLW-TEX-E-3HE interface and allows the setting of various parameters.

Press the Update button at the end of the line to confirm selection; if instead you wait for the timer to elapse, the parameter will remain as it was set previously.

Below is a description of the items that allow modification of the parameter. Press the buttons to confirm your choice, or wait for the timer to elapse, and the parameter will remain as set previously:

RHWARE RELEASE:	TEXP-000103	
RHWARE DATE:	TESTING 1	
CONF.TAB:	TEX-0030-01	
VEB GUI RELEASE:	TLAN-000401	
VER GUI DATE:	07/05/2019	
OCAL DATE:	05/11/2019	
OCAL TIME:	12.59	
EVICE DATE:	05/11/2019	
EVICE TIME:	12.59	EVERSON IN CLUCK
TATION NAME:	(WEB-INT	
SK CODE	(000000)	штини соок (

Menu 7

Firmware Release

Shows the firmware release of TEX-LCD or TEX-LIGHT.

Firmware Date

Shows the firmware release date of TEX-LCD or TEX-LIGHT.

Conf. Tab

Shows the Configuration Table loaded on TEX-LCD or TEX-LIGHT.

WEB GUI Release

Shows the release of the WEB firmware.

WEB GUI Date

Shows the release date of the WEB firmware.

Local Date

Displays the set date of the internet navigation device.

Local Time

Displays the set time of the internet navigation device.

Device Date

Displays the date set on the TEX-LCD or TEX-LIGHT device.



Device Time

Displays the time set on the TEX-LCD or TEX-LIGHT device. To synchronize the set time, press the **SYNCHRONIZE CLOCK** button to apply the choice.

Station Name

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

Code FSK

Setting of FSK code of transmitting station. Write the code in the box that you want to assign, then press the **SET NEW CODE** button to apply the choice.



1.3.6 Measures Menu - Operator & Administrator

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

This page shows the user the information about the exciter connected to the /TLW-TEX-E-2HE & /TLW-TEX-E-3HE interface and allows the setting of various parameters.

Below is a description of the items that allow modification of the parameter. Press the buttons to confirm your choice, or wait for the timer to elapse, and the parameter will remain as set previously:

Ha Ma Ha	WEB-INT		ONLINE
R.F. POWER OF			\cap
O PLL LOCK			
FOLDBACK			$\left(\begin{array}{c} \underline{0}\\ \underline{\mathbf{x}}\end{array}\right) \left(\begin{array}{c} \underline{25}\\ \underline{\mathbf{7c}}\end{array}\right)$
EXT.B.F. HUTE			$\left(\begin{array}{c} \underline{0} \\ \underline{\mathbf{x}} \end{array}\right) \left(\begin{array}{c} \underline{25} \\ \underline{\mathbf{7c}} \end{array}\right)$
SK DISABLED			
ALARM AUDIO			R.F. EFFICIENCY TEMPERATURE
		28 v	100 Mhz
	0 W	0.2 A	20 %
			ės ki
P 10FT			o
			0



RF Power

Shows the power status of the exciter.

PLL

Shows the lock status at frequency set by the PLL.

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.

FSK

Shows the activation of status of FSK code transmission of the exciter.

Audio Alarm

Shows the status of an impasse due to excessive SWR.

RF Efficiency

Shows efficiency of the exciter expressed in %.

Temperature

Shows the internal temperature reading of the device expressed in °C.



Forward R.F. Power Shows the forward power of the exciter expressed in W. Reflected R.F. Power Shows the reflected power of the exciter expressed in W. VPA Power Supply Shows the amplifier module voltage of the exciter expressed in V. IPA Power Supply Shows the amplifier module current of the exciter expressed in A. Frequency Settings Shows the operating frequency of the exciter expressed in MHz. PWR Preset Settings Shows the power percentage of the exciter expressed in %. Deviation Shows deviation of the exciter expressed in kHz. Left Shows modulation on the left channel of the exciter expressed in kHz.

Right

Shows modulation on the right channel of the exciter expressed in kHz.

Press **SETTINGS**, located at the bottom right of the page, to access the parameter modification menu:

B.W.B. WEB-INT	_		ONLI	
LETTRONCA HEATING				=
A P. HOWER, OFF				
D Pic Look			- (0) (25	
an in sin				
FOR DITABLED				
			N.R. EPIGENCY TEMPERATUR	
0 w		28 v	103 Mhz	
VR PRESET				54 %
	_			
	C	100		
ADMIN				6
				_

Menu 8

PWR Preset

Setting the power percentage of the exciter expressed in %. Select in the box the value that you want to assign and then press the ▼ button to apply the choice.



RF Power

Press Set to change the logical state of the data.

Frequency

Setting the operating frequency expressed in MHz. Write in the box the value that you want to assign and then press the $\mathbf{\nabla}$ button to apply the choice.

FSK

Press Set to change the logical state of the data.



1.3.7 Power Events Menu - Operator & Administrator



Note: Access to this menu, and any parameter modification, is possible only if the device supports the clock function (RTC) inside it.



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

This page shows the user the date and time of the device with the **/TLW-TEX-E-2HE & /TLW-TEX-E-3HE** interface and allows the setting of various parameters.

Press \blacktriangle to increase or \lor to decrease the value to be set, or write it directly in the field to change the value more quickly. Press the **ACTIVE** key to activate the event to be logged.

Below is a description of the items that allow modification of the parameter. Press the buttons to confirm your choice, or wait for the timer to elapse, and the parameter will remain as set previously:

R.V.R.			
			-
Venta	1045	ROWDA	ACTIV
NONDAY #1	16:40	10 %	0
NONDAY #1	20:32	20 %	0
UESDAY #1	16:51	11 %	0
ruesday #2	20:20	(66 %)	0
VEDNESDAY #	15:48	69 %	0
WEDNESDAY #2	(22:10)	35 %	0
THURSDAY #1	(17:50)	(89 %)	0
THURSDAY #2	18:59	(23 %)	0
RIDAY #1	12:50		0
RIDAY #2	12:58	80 %	0
ATURDAY #1	(8:38)	10 %	0
ATURDAY R2	12:39	(85 %)	0
SUNDAY #1	(11:40)	(13 %)	0
SUNDAY #2	(12:41)	(77.5)	0

Menu 9

Monday #1

Setting of the first event on Monday when the power variation set as a percentage occurs.

Monday #2

Setting of the second event on Monday when the power variation set as a percentage occurs.

Tuesday #1

Setting of the first event on Tuesday when the power variation set as a percentage occurs.

Tuesday #2

Setting of the second event on Tuesday when the power variation set as a percentage occurs.



Wednesday #1

Setting of the first event on Wednesday when the power variation set as a percentage occurs.

Wednesday #2

Setting of the second event on Wednesday when the power variation set as a percentage occurs.

Thursday #1

Setting of the first event on Thursday when the power variation set as a percentage occurs.

Thursday #2

Setting of the second Thursday event when the power variation set as a percentage occurs.

Friday #1

Setting of the first event on Friday when the power variation set as a percentage occurs.

Friday #2

Setting of the second event on Friday when the power variation set as a percentage occurs.

Saturday #1

Setting of the first event on Saturday when the power variation set as a percentage occurs.

Saturday #2

Setting of the second event on Saturday when the power variation set as a percentage occurs.

Sunday #1

Setting of the first event on Sunday when the power variation set as a percentage occurs.

Sunday #2

Setting of the second event on Sunday when the power variation set as a percentage occurs.

NOTE: For the events to be set correctly, the power must be between 0 and 105%, and the time between 00:00 and 23:59. If the time is set at 24:00, the event is disabled.



NOTE: The power change set in the event will be maintained until the next event set; in case of remote modifications, the power change will be immediate until the next event.



1.3.8 Mail Menu - Operator & Administrator



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

This screen shows information on sending messages via the interface network **/TLW-TEX-E-2HE & / TLW-TEX-E-3HE** and also allows the user to set various parameters.

Press the **UPDATE SETTINGS** or **UPDATE EVENTS** button at the end of the line to confirm selection; if instead you wait for the timer to elapse, the parameter will remain as it was set previously.



Note: e-mails can only be forwarded via an MX record, i.e. a DNS record that identifies the e-mail server associated with a domain. Changing the MX records can be useful if you want to use your own mail server and it is absolutely necessary that the DNS domain used supports this function for its correct operation.



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

Below is a description of the items that allow modification of the parameter. Press the buttons to confirm your choice, or wait for the timer to elapse, and the parameter will remain as set previously:

ENDER ADDRESS:	(TCP1Bron.R			
ESTINATION 1	(Sestema			
ESTINATION 2				
DESTINATION 3:	(
DESTINATION 4:				
SUBJECT:	Test	(Test		
SERVER PORT:	(25			
	(25			
TEET MAIL	(25 AUTO MAIL GENERATION PARAMETERS -			
		UPDATE SETTINGS		
	AUTO MAIL GENERATION PARAMETERS -			
TEET MAIL	AUTO MAIL GENERATION PARAMETERS -	NAX HYSTORESE		
TEST MAIL	AUTO MAIL GENERATION PARAMETERS	NAN IIYSTEREES)(0		
TEET MAIL	AUTO MAIL GENERATION PARAMETERS - ST. RANKY MIN OFF 0 0 0 OFF 0 0 0	них интексов)(0)(0)		

Menu 10

Sender Address

Setting of the sender's address used to send messages.

Destination 1

Setting of the first destination address used to send messages in case of alarms.



Destination 2

Setting of the second destination address used to send messages in case of alarms.

Destination 3

Setting of the third destination address used to send messages in case of alarms.

Destination 4

Setting of the fourth destination address used to send messages in case of alarms.

Subject

Setting of the customised subject of the email used to send alarm messages.

Server Port

Setting of the port used by the TCP transmission protocol.

Auto Mail Generation Parameters

Setting of the parameters configured for transmission of the alarm message.

The status of the automatic generation of emails can be set at active or inactive; it is also possible to change the value of direct power (in W), reflected power (in W), temperature (in °C) and audio (in kHz), by writing a value directly in the field between the minimum, maximum and hysteresis.



1.3.9 Password Menu - Administrator



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



Note: If the administrator password is not set, it cannot be enabled for the user or operator.

Press the \mathbf{V} button to confirm selection; if instead you wait for the timer to elapse, or press \mathbf{X} , the parameter will remain as it was set previously.

This page allows the configuration of login as an administrator and maintenance technician for the **/TLW-TEX-E-2HE & /TLW-TEX-E-3HE** interface via WUI:

B.V	WEB-INT	ONLINE C
		=
	USER:	
ASSWORD	NONE	
	Nation:	000
	OPERATOR:	
	NONE	$\bigcirc \otimes \bigcirc$
	ADMIN:	
	ADHIN:	
NSSMORD	(NONE	$ \bigcirc \otimes $
	ATTENTION 1 IF THE ADMINISTRATOR PARENDED IS "NOW!" THE OTHERS PA IF THE OPERATOR PARENDED IS "NOW!" THE UNIT PAREN	ASINOTS IS FORCED "NOME"1
		STATUS -
ADMIN		sinus (

Menu 11

User Password

Setting of the password for user functions (parameter read-only enabling).

Operator Password

Setting of the password for operator functions (parameter reading and partial change enabling).

Admin Password

Setting of the password for administrator functions (parameter reading and full change enabling).



1.3.10 Network Menu - Administrator



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

This page shows information on internet connection of the **/TLW-TEX-E-2HE & / TLW-TEX- E-3HE** interface and allows the user to set the parameters.

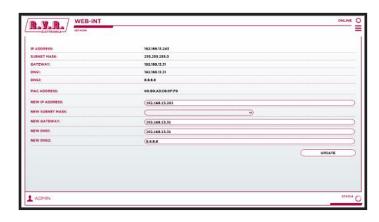
Press the **Update** button to confirm selection; if instead you wait until the timer elapses, the parameter will remain as it was set previously.



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



Note: The IP address must be set to static and it is not possible to acquire an address from the DHCP server on the network.



Menu 11

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

Display of the subnet mask, necessary for the computer that must communicate with another IP address to know if it should route packages towards the gateway of its local network or use the address of the recipient's local network.

Gateway

Shows the gateway address. In simpler networks, there is only one gateway that forwards all the outbound traffic to the internet network. 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 Display of the address of the first DNS (Domain Name System) server; 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 Display of the address of the second DNS (Domain Name System) server; 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

Display of the MAC (Media Access Control) address; this address is uniquely assigned to the ethernet network card present in the 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.

New DNS1

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

New DNS2

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



1.3.11 SNMP Menu - Administrator



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

This page shows the user the information about the management and supervision of the devices connected to the network via SNMP (Simple Network Management Protocol) of the /TLW-TEX-E-2HE & /TLW-TEX-E-3HE interface and allows the user to set various parameters.

Press the **Update** button to confirm selection; if instead you wait until the timer elapses, the parameter will remain as it was set previously.

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

B W B / WEB-INT		ONLINE
La Ja Haa		
ACTUAL STATUS:	DISABLE	
READ COMMUNITY:	PUBLIC	
WRITE COMMUNITY:	PRIVATE	
PRIMARY TRAP IP:	192.158.0.41	
PRIMARY TRAP PORTI	162	
SECONDARY TRAF IP	192.168.0.41	
SECONDARY TRAP PORT:	162	
NEW STATUS:	v	
NEW READ COMMUNITY:	(public	
NEW WRITE COMMUNITY:	(private	
NEW PRIMARY TRAP IP:	(192.168.0.41	
NEW SECONDARY TRAP IP:	(192.158.0.41	
HAIN HIR:	🛐 rermainmib.mib	
SPECIFIC HIB:	🛅 rentischendight-mitumin	
		UPDATE
ADMIN		STATE

Menu 12

Actual Status

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

Read Community

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

Write Community

Shows the set string for the 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 command that configures the agents to send a specific message when certain events occur.

Primary Trap Port

Shows the first port number set by the TCP transmission protocol for the TRAP command that configures the agents to send a specific message when certain events occur. The port cannot be changed.



Secondary Trap IP

Shows the second identification number of the IP address set to send the TRAP command that configures the agents to send a specific message when certain events occur.

Secondary Trap Port

Shows the second port number set by the TCP transmission protocol for the TRAP command that configures the agents to send a specific message when certain events occur. The port cannot be changed.

New Status

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

New Read Community

Set the string for the Read command.

New Write Community

Set the string for the Write command.

New Primary Trap IP

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

New Secondary Trap IP

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

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.



2. SNMP Telemetry

SNMP (Simple Network Management Protocol) is a worldwide 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 OIDs (Object Identifiers). 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 (proxy card) and how to interpret the information received.

Note : the user cannot freely distribute the MIB without written authorization issued by the manufacturer. The MIB is the property of the manufacturer.

The SNMP version used in this application is v2, and is compatible with all NMS systems.

RaVaRa WEB-INT		ONLINE
LIETTRONCA_ DEB		
ACTUAL STATUS	DISABLE	
READ COMMUNITY:	PUBLIC	
WRITE COMMUNITY:	PRIVATE	
PRIMARY TRAP IP:	192.158.0.41	
PRIMARY TRAP PORTI	162	
SECONDARY TRAF IP	192.168.0.41	
SECONDARY TRAP PORT:	162	
NEW STATUS:	v	
NEW READ COMMUNITY:	(public	
NEW WRITE COMMUNITY:	(private	
NEW PRIMARY TRAP IP:	(192.168.0.41	
NEW SECONDARY TRAP IP	(192.168.0.41	
HAIN HIR	a remainmiturit	
влесили нав	b rentientextightmis.mis	
		UPDATE
ADMIN		47470

Menu 1

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Note: Use a MIB BROWSER (not included) to use the MIBs of RVR devices. These are usually provided in an accompanying CD with the system in which the /**TLW-TEX-E-2HE &** /**TLW-TEX-E-3HE** is installed.

2.1 MAIN MIB Description

The MAIN MIB reads and manages the main parameters of **/TLW-TEX-E-2HE & /TLW-TEX-E-3HE** and provides general information related to the manufacturer.

Through this MIB you can read, and in some cases set, parameters such as the IP address, Netmask, Gateway and DNS address.

It is also possible to manage the IP address, time and date stored in the telemetry system.



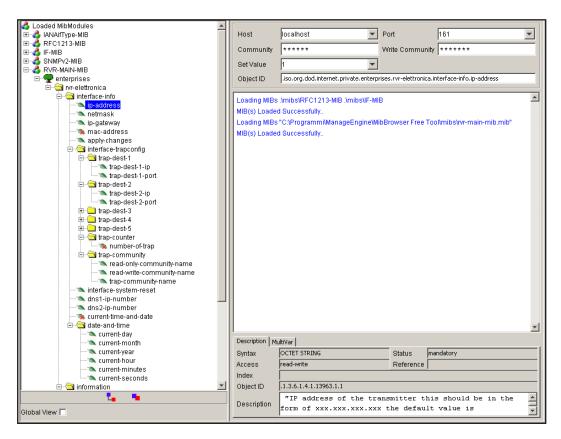
In cases where the parameter is read-only, and cannot be edited, there is a red X over the icon of reference. In some cases to apply a particular change, it is necessary to click on the OID item "Apply Changes".



Note: A MIB browser of ManageEngine is used in the following examples, but any MIB Browser can be used.

2.1.1 Reading and Settings of parameters

The description of each variable is specified in the MIB, and given in the Description box at the end.



Menu 2

The telemetry system can send Traps to two different addresses. Different addresses can be set using the OIDs in the MIB, in this case:

• IP address for the destination of the Traps.

2.2 SPECIFIC MIB Description

The SPECIFIC MIB reads and manages the parameters managed by the **/TLW-TEX-E-2HE & /TLW-TEX-E-3HE** in the transmitter station.

/TLW-TEX-E-2HE & /TLW-TEX-E-3HE



This MIB can be used to read powers (forward, reflected or unbalanced), temperatures, voltages and currents on modules of all amplifiers, exciters and changeovers connected to the /TLW-TEX-E-2HE & /TLW-TEX-E-3HE.



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Note: The maximum configuration of amplifiers, exciters and changeovers available will always be displayed in the MIB browser. The devices not present will report zero readings.

It is also possible to manage the switching on or off of the transmitter, the resetting of alarms and automatic or manual changeover.

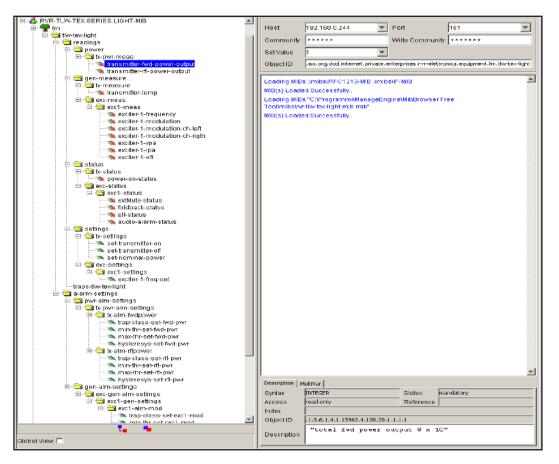
In cases where the parameter is read-only, and cannot be edited, there is a red X over the icon of reference. In some cases to apply a particular change, it is necessary to click on the OID item "Apply Changes".

Note: A MIB browser of ManageEngine is used in the following examples, but any MIB Browser can be used.

2.2.1 Reading of Measurements

Each transmitter has a range of measurements that can be read.

The description of each variable is specified in the MIB, and given in the Description box at the end.



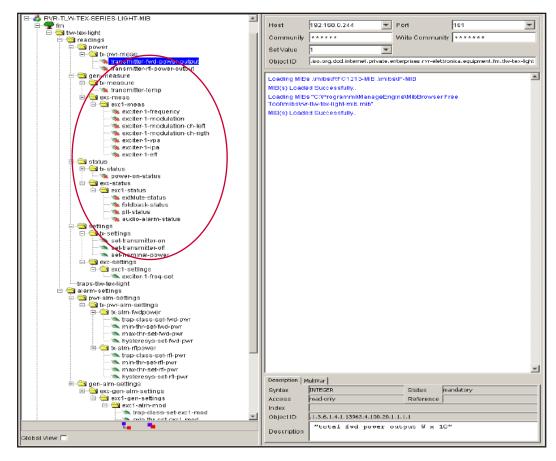
Menu 3



2.2.1 Status readings

Similarly to measurements, each transmitter has a range of states that can be read.

The description of each variable is specified in the MIB, and given in the Description box at the end.



Menu 4

Status indications can be of three types:

- **0** Indication of absence of the transmitter system component.
- 1 Indication of ON state, presence or activation of parameter.
- 2 Indication of OFF state, absence or deactivation of parameter.

2.2.2 Sending of commands

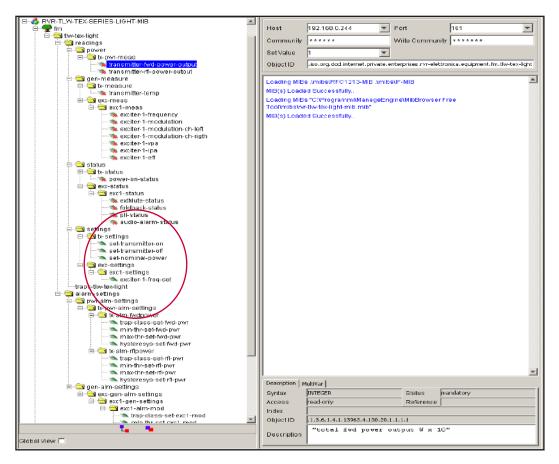
Similarly to measurements, the commands have a number of OIDs that are only in write mode. For each transmitter, the MIB exports a specific set of OIDs.

The commands set are of two types: bistable (ON / OFF) or impulsive type.

• **Bistable control**: in order to activate (ON), the user must send a "2" as value; in order to disable (OFF), the user must send a "1" as value. No other value is accepted as a command.



• **Impulsive command**: Typically the commands are impulsive type. In other words, if you put the transmitter "ON" ("2" value), the next command is "OFF" ("2" value) and not a disable for "ON" command ("1" value).



Menu 5

Note: Note: In the example above, all the commands are of the impulsive type.

2.2.3 Reading and Settings of the Traps

/TLW-TEX-E-2HE & /TLW-TEX-E-3HE

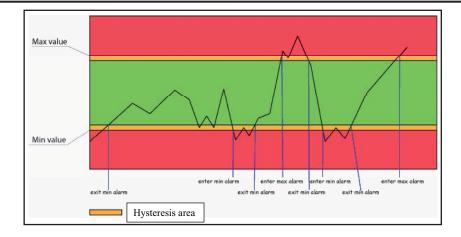
For each Trap related to measurement, the following can be set:

- Enabling of the Trap command relating to power measurement.
- The minimum value (MIN) is the fixed point below which a Trap is sent.
- The maximum value (MAX) is the fixed point above which a Trap is sent.
- The hysteresis value is a nominal value that the system adds to (or subtracts from) the real value in order to exit alarm mode.
 In other words, it helps to avoid situations of continuous alarm, if the read value is very close to the alarm set point.

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/TLW-TEX-E-2HE & /TLW-TEX-E-3HE



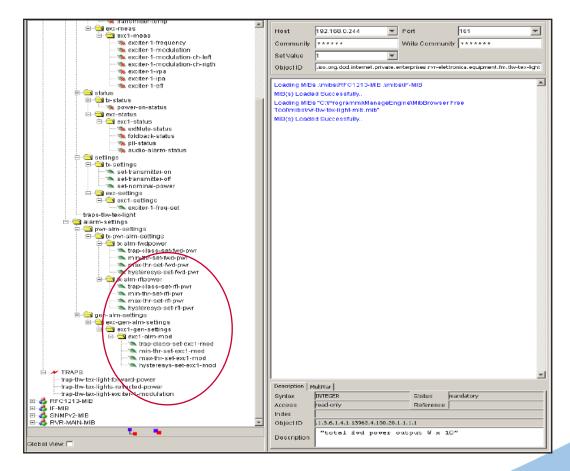


As you can see the hysteresis is a protected area in which the alarm is not sent, when the value exceeds the minimum value (MIN), when there is no alarm or the maximum value (MAX) alarm is active, the minimum value (MIN) alarm is set. To exit the MIN alarm condition, the value should be equal to the MIN value plus the value of hysteresis.



Note: the hysteresis value must be less than ½ the distance between the minimum value (MIN) and maximum value (MAX).

An example of an analogue alarm set for the measurements is given in the following section of the SNMP tree:



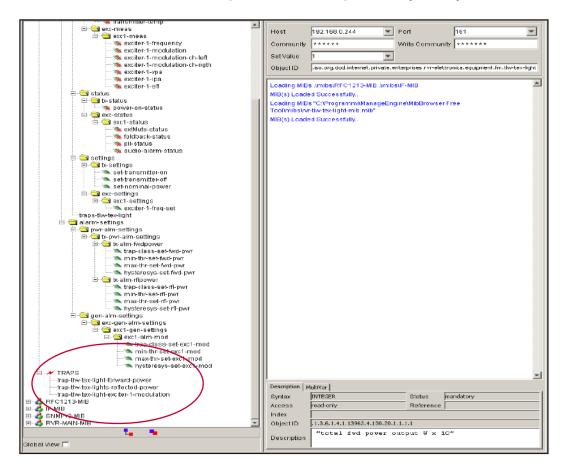


User Manual





Below are shown the OID descriptions of the Traps sent by the system:



Menu 8



3. Connecting to Internet network

In order to connect the system to the public network **/TLW-TEX-E-2HE & /TLW-TEX-E-3HE** 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 router's public IP address and protect against any attempts at forcing.

In the case of a direct connection with a public IP on the LAN socket, it is advisable to insert a router / firewall to avoid exposing the /TLW-TEX-E-2HE & /TLW-TEX-E-3HE system directly to the public network but manage only the ports used by the / TLW-TEX-E-2HE & / TLW-TEX-E-3HE for the functions of the WEB interface and SNMP.

The system uses incoming port 80, which cannot be modified, as a web interface visible from any Web Browser, and port 161, which also cannot be modified, as the SNMP port.

For sending of SNMP Traps, the **/TLW-TEX-E-2HE & /TLW-TEX-E-3HE** uses port 162, which cannot be modified.

To make the / **TLW-TEX-E-2HE &** / **TLW-TEX-E-3HE** visible from the outside, port forwarding must be set in the router / firewall. The function can have different names depending on the brand of the router.

Port 80 from the public IP to the IP of the /TLW-TEX-E-2HE & /TLW-TEX-E-3HE for the WEB and port 161 of the public interface to the IP of the / TLW-TEX-E-2HE & /TLW-TEX-E-3HE for SNMP data.

To ensure that the unit can send the Traps, it needs to be able to use the network at its output port 162 for Traps.

The default IP of the device is set by RVR as 192.168.0.244 and must be modified on the network configured as your router's LAN port and used for port forwarding.

If you have multiple devices connected to the LAN after the router, it is necessary to use different ports on the public interface that will be routed to the fixed ports of the devices /TLW-TEX-E-2HE & /TLW-TEX-E-3HE which must each have a different LAN IP.

- /TLW-TEX-E-2HE & / TLW-TEX-E-3HE # 1 IP 192.168.0.244 Port forwarding port 80 > port 80 of 192.168.0.244
- /TLW-TEX-E-2HE & / TLW-TEX-E-3HE # 1 IP 192.168.0.244 Port forwarding port 161 > port 161 of 192.168.0.244
- /TLW-TEX-E-2HE & / TLW-TEX-E-3HE # 2 IP 192.168.0.245 Port forwarding port 81 > port 80 of 192.168.0.245
- /TLW-TEX-E-2HE & / TLW-TEX-E-3HE # 2 IP 192.168.0.245 Port forwarding port 163 > port 161 of 192.168.0.245



With this configuration, the device /TLW-TEX-E-2HE & /TLW-TEX-E-3HE#1 will be visible from WEB as http://public.ip and device /TLW-TEX-E-2HE & /TLW-TEX-E-3HE#2 will be visible from WEB as http://public.ip:81, while port 161 must be used as the SNMP post to see the /TLW-TEX-E-2HE & /TLW-TEX-E-3HE#1 and port 163 to see the /TLW-TEX-E-2HE & /TLW-TEX-E-3HE#2.

The Traps can be sent easily providing there are no restrictions on use of port 162 set by the service provider.

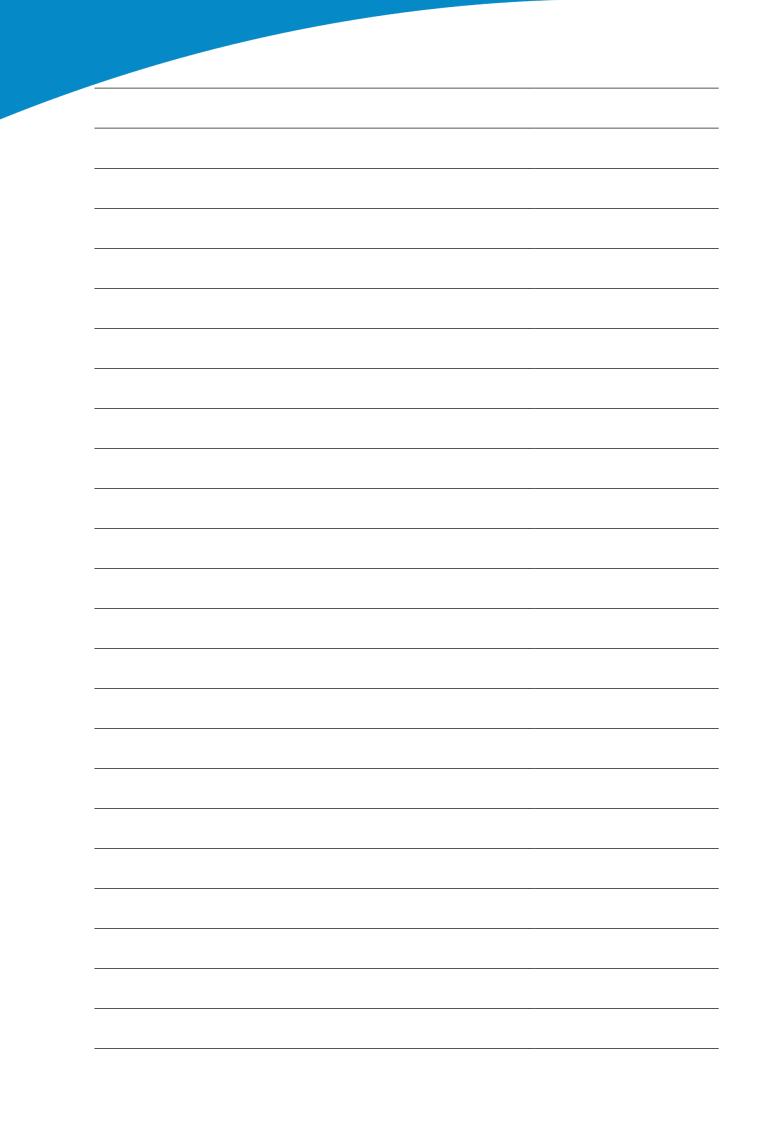
To know the Public IP of our device it is desirable to have a FIXED IP connection service that is offered by the provider. If the service has a dynamic IP you will have to rely on a DNS service that gives a name to our IP and keeps it updated in case of change to the IP so that you can reach the / TLW-TEX-E-2HE & / TLW-TEX-E-3HE by always writing the same name.

This service is offered by many providers, some for free and others for a fee, and usually some routers include this function that can manage the service of some providers; in case you need to use this service it will have to be programmed on the router following the instructions as, due to the various methods used to manage this function, we cannot include this function in the **/TLW-TEX-E-2HE & /TLW-TEX-E-3HE system**.

In case your network has many / TLW-TEX-E-2HE & / TLW-TEX-E-3HE systems connected to the internet, the safest and most functional way to manage the systems is to create a VPN between all the workstations and the headquarters in order to have all the devices in the same network and to be able to view them directly with your IP without the limitations of different ports for devices at the same location. Not all routers offer this option, there can be limitations for the output ports, and the management of a dynamic IP with a DNS service may be required.

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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