

# TCPIPINT-SCMN

# **USER MANUAL**



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



File Name: TCPIPINT-SCMN\_ING\_1.0.indb

Version: 1.0

**Date:** 15/04/2016

#### **Revision History**

Date	Version	Reason	Editor
15/04/2016	1.0	First edition	J. H. Berti

TCPIPINT-SCMN - User Manual Version 1.0

© Copyright 2016 R.V.R. Elettronica SpA Via del Fonditore 2/2c - 40138 - Bologna (Italia) Phone: +39 051 6010506 Fax: +39 051 6011104 Email: info@rvr.it Web: www.rvr.it

All rights reserved

Printed and bound in Italy. No part of this manual may be reproduced, memorized or transmitted in any form or by any means, electronic or mechanic, including photocopying, recording or by any information storage and retrieval system, without written permission of the copyright owner.



# **Table of Contents**

1.	TCPIPINT-SCMN Option	1
1.1	Preparation	1
1.2	First Power-On and Set-up	1
1.3	WEB User interface (WUI)	3
2.	Connecting to Internet network	17
3.	External Description	19
3.1	Front Panel	19
3.2	Rear Panel	19





This page was intentionally left blank





# 1. TCPIPINT-SCMN 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 TCPIPINT-SCMN 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.

# 1.2 First Power-On and Set-Up

In case of first time, or after a change to the configuration in which this component is integrated, follow the instructions below.

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:







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



**TCPIPINT-SCMN** 

**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 **TCPIPINT-SCMN** 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 user is **user**, that one to enter as operator is **operator**, while the username to log in as administrator is **admin**.

The user names are not modifiable by the user.









**Note:** Login as user enables read-only mode through the menus. If the administrator password is not set, it can not be enabled for user or operator.

- 3) Modify the parameters in accordance with the own needs.
- 4) Now 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.

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

RayaRa ELETTRONICA	TCPIPINT-SCMN
Menu selection	Company Information:
User: Info	RVR Elettronica was founded in 1979 to manufacture Telecommunication and F.M. Broadcast equipment.
Measure Alarm List	During these years RVR Elettronica has formed an established group of companies composed of more than 200 professional figures,consolidating its leader position in the FM 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. In order to reach this target, RVR can count on a detailed sales organization
Operator: General	supported by a qualified technical team.
Command Alarm Delete	Besides RVR has a complete and innovative product range that allows advanced and customized production. RVR uses an efficient quality control system to guarantee reliable products, and supports its customers with technical and commercial activities and training courses through its efficient after-sales service.
Administrator:	To learn more about our complete line of broadcast equipment, visit the internet site.
General	Web Interface Tested with:
Alarm Delete Password Network Mail	E Contraction of the second se

Menu 3

To enter in one of the sub-menus, select the name and then click on 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 is located on the top of the page.
- 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 - User

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

This page shows the user the data of **TCPIPINT-SCMN** interface:

	Web Sofware Release:	TCP2-060300	
ser: Info	Web Sofware Date:	25/11/2015	
Measure Alarm List	Device Date:	27/11/2015	
	Device Time:	9:50	
perator:	Local Date:	27/11/2015	
General	Local Time:	9:50	
Alarm Delete			
Alum Delete	Station Name:	TCPIPINT-SCMN	
dministrator:			
General			
Command			
Alarm Delete			
Network			
Mail			

Menu 4

- Web Software Release Shows the release of WEB firmware.
- Web Software Date Shows the issue date of WEB firmware.
- Device Date

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

Device Time

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

Local Date

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

- Local Time Shows the time stored in your browser/PC (hh:mm).
- Station Name

Shows the ID name of transmitting station.



#### 1.3.2 Measure Menu - User

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

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 transmitter connected to the **TCPIPINT-SCMN** interface:

	Auto Refresh	Rea	dyl						
Menu selection									
	SCM Mode	Manua	al						
User:				TX1			TX3		
Info	Tot Retry	0		Switch #1	Norma	Position	Switch #3	Normal	Position
Measure	Retry	0		TX1 Frequency	98	MHZ	TX3 Frequency	98	MHZ
Alarm List				TX1 On/Off	TX ON		TX3 On/Off	TX ON	
	Start Time	300	sec	TX1 Forward	1044	w	TX3 Forward	1026	w
	Before Time	5	SEC	TX1 Reflected	1	w	TX3 Reflected	2	w
Operator:	TxOff Timeout	120	sec	TX1 VPA	28	v	TX3 VPA	28	v
General	Coax Timeout	120	Sec	TX1 IPA	40	A	TX3 IPA	41	A
	After Timeout	180	sec						
Alarm Delete									
	TX1 Mode	Auto							
	TX2 Mode	Auto							
Administrator:	TX3 Mode	Auto		TX2			TX4		
	TX4 Mode	Manua	al	Switch #2	Norma	Position	Switch #4	Normal	Position
				TX2 Frequency	98	MHz	TX4 Frequency	0	MHz
Alarm Delete				TX2 On/Off	TX ON		TX4 On/Off	TX OFF	
Password				TX2 Forward	1030	W	TX4 Forward	0	W
Network	TXR			TX2 Reflected	2	w	TX4 Reflected	0	w
Mail	TXR On/Off	TX OF	F	TX2 VPA	27	v	TX4 VPA	0	V
	TXR Forward	0	W	TX2 IPA	43	A	TX4 IPA	0	Α
	TXR Reflected	0	W						
	TXR VPA	0	V						
	TXR IPA	0	Α						

Menu 5

#### SCM Mode

Shows the SCM status.

Tot Retry

Shows the total number of retry before passing in "MANUAL" status.

Retry

Shows the actual number of retry before passing in "MANUAL" status.

#### Start Time

Shows the period during which the device remains in a status of inactivity after being started up. Said time is also used if power failures occur so that when power is supplied again the transmitters can attain full power.

Before Time

Shows the wait period from the moment in which a transmitter malfunctions, before initiating the change over procedure.



TxOff Timeout

Shows the maximum wait period for the switching off condition of the faulty transmitter.

Coax Timeout

Shows the maximum wait period for the coaxial relay to stabilize in the correct position.

After Timeout

Shows the maximum wait period after the completion of the change over procedure to permit the transmitter, which was switched on during the procedure, to attain full power.

TXn Mode

Shows the transmitter mode status.

TXn

Shows the reference of the transmitter taken into consideration.

Switch #n

Shows the changeover status.

TXn Frequency

Shows the working frequency of the transmitter expressed in MHz.

TXn On/Off

Shows the transmitter status.

TXn Forward

Shows the forward power of the transmitter expressed in W.

#### TXn Reflected

Shows the reflected power of the transmitter expressed in W.

TXn Vpa

Shows the transmitter amplifier module voltage expressed in V.

TXn Ipa

Shows the transmitter amplifier module current expressed in A.



# 1.3.3 Alarm List menu - User

Values found here are "live readings", and as such they can not be modified. To change the settings, use the **operator** or **administrator Alarm Delete** Menu.

Within this menu you can display all alarms saved by the system: any new event will automatically delete the older ones.

This page shows the user the data of the exciter connected to the **TCPIPINT-SCMN** interface:

		Ready!			
Menu selection	TYPE	NAME	TIME	DATE	VALUE
	769	Switch to load TX3	9:37	27/11/2015	37
User:	513	Switch to load TX2	9:36	27/11/2015	36
Info	257	Switch to load TX1	9:35	27/11/2015	35
Measure	9	Restart SCM	18:9	1/1/2000	34
Alarm List	769	Switch to load TX3	2:46	1/1/2000	33
	769	Switch to load TX3	2:25	1/1/2000	32
Administrator:					
General					
Alarm Doloto					
Daccound					
Network					
Mail					



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



#### 1.3.4 General Menu - Operator & Administrator

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

This page not only shows the user the information about the exciter connected to **TCPIPINT-SCMN** interface, but also allows setting various parameters.

Below will be described only items that allow the modification of the parameter, with respect to the Info menu. Press the buttons to confirm your choice; if you let timer to time out, the parameter setting will remain as previously set.

Jeer: Info Mosare Alarm List: Device Date: 25/11/2015 Device Date: 27/11/2015 Device Date: 9:55 Device Time: 9:55 Command Alarm Delete Station Name: TOPIPINT-SCMN New Station Name: Update	Jeer: Info Messure Alarm List: Device Date: 25/11/2015 Device Date: 27/11/2015 Device Time: 9:55 Person Device Time: 9:55 Local Date: 27/11/2015 Local Date: 25/11/2015 Local Date: 9:55 Station Name: TCPIPINT-SCMN Meministrators: Command Alarm Delete Password Messure Mail	Menu selection	Web Sofware Release:	TCP2-060300	
Messure Alarm List     Device Date: Device Date:     27/11/2015     Sylncrenta       Operator: Command Alarm Delete     Local Date:     27/11/2015     Station Name:     Visit Station Name:       Administrator: Command Alarm Delete     Station Name:     TOPIPINT-SCMN     Visit Station Name:     Update       Administrator: Command Alarm Delete     New Station Name:     Update     Update	Adam List Device Date: 27/11/2015 Sylincrositie Device Time: 9:55 Device Time: 9:55 Command Alarm Diete Command Comman	User: Info	Web Sofware Date:	25/11/2015	
Device Time:     9:55       Operator:     Local Date:     27/11/2015       Command     Local Time:     9:55       Alarm Delete     Station Name:     TCPIPINT-SCMN       Mdministrator:     Ceneral Command Alarm Delete     New Station Name:     Update       Versovird Network.     New Station Name:     Update	Device Time: 9:55  Deparator: General Command Alarm Delete Password Methods Kame: TCPIPINT-SCMN  Updiate Updiate	Alarm List	Device Date:	27/11/2015	Sylncronize
Operator: General Alarm Delete         Local Dete:         27/11/2015           Command Alarm Delete Pessword Alarm Delete Pessword         Station Name:         TOPIPINT-SOVN	Deparator: General Command Alarm Delete General Command Alarm Delete Password New Station Name: TOPIPINT-SCMN New Station Name: Updiate Updiate		Device Time:	9:55	
Central Loai Time: 9:55 Alarm Delete Station Name: TCPIPINT-SCNN Administrator: Central Command Alarm Delete Pessword Alarm Delete Pessword	Central Command Local Time: 9:55 Alarm Delete Station Name: TO*IPINT-SCMN Multinistrator: General Command Alarm Delete Password Mail	Operator:	Local Date:	27/11/2015	
Administrator: General Command Adam Dete Resword New Station Name: TOPIPINT-SCMN Update Update Update	Aam Delete Aam Delete Pessword Network Mai	General	Local Time:	9:55	
Station Name:         TOPIPINT-SCAN           Administrator:         Opdate           Central         Alarm Delete           Password         NewStation Name:	Station Name:         TOPIPINT SCAN           Administrator:         Command           Alarm Delete         Password           Password         Network	Alarm Delete			
Administrator: Vew Station Name: Update Update Command Alarm Delete Password Network.	Administrator:         Update           Ceneral         Command           Aarm Delete         Password           Password         Network           Mail         Command		Station Name:	TCPIPINT-SCMN	
Command Command Alarm Delete Password Netswork	General Command Alam Detete Password Network Mail	Administrator:	New Station Name:		Update
Command Alarm Delete Pessword Network	Command Alarm Delete Password Network Mai	General			
Alarm Delete Password Network	Alarm Delete Password Network Mail	Command			
Password Network	Password Network Mail	Alarm Delete			
Network And	Mail	Password			
Mail		Mail			

Menu 7

```
Web Software Release
```

Shows ID number of firmware release.

Web Software Date

Shows the date of firmware release.

Device Date

Allows you to align the date stored in the equipment with that of browser device, by pressing the **Syncronize Clock** button (dd/MM/yyyy).

Device Time

Allows you to align the time stored in the equipment with that of browser device, by pressing the **Syncronize Clock** button (hh:mm).

Local Date

Shows the current local Date stored relates on own browser/PC (dd/ MM/yyyy).

Local Time

Shows the current local Time stored relates on own browser/PC (hh: mm).

Station Name

Shows ID (identifier) name of transmitting station.

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.



#### 1.3.5 Command 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 not only shows the user the information about the transmitter connected to the **TCPIPINT-SCMN** interface, but also allows setting various parameters.

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.

Following is a description of the items that allow modification of the parameter, with respect to the Info menu. Press the buttons to confirm your choice; if you let timer to time out, the parameter setting will remain as previously set.



Menu 8



**Nota:** an example of **TCPIPINT-SCMN** connected to **TEX-LCD**, made by **RVR**, is in the case shown above. The x next to EXC words is refer to the number of exciter to which the measure makes reference.

SCM Mode

Press **Set** to change "AUTO" or "MANUAL" status.

Tot Retry

Shows the total number of retry before passing in "MANUAL" status.

Retry

Shows the actual number of retry before passing in "MANUAL" status.

#### Start Time

Shows the period during which the device remains in a status of inactivity after being started up. Said time is also used if power failures occur so that when power is supplied again the transmitters can attain full power.



#### Before Time

Shows the wait period from the moment in which a transmitter malfunctions, before initiating the change over procedure.

TxOff Timeout

Shows the maximum wait period for the switching off condition of the faulty transmitter.

Coax Timeout

Shows the maximum wait period for the coaxial relay to stabilize in the correct position.

#### After Timeout

Shows the maximum wait period after the completion of the change over procedure to permit the transmitter, which was switched on during the procedure, to attain full power.

TXn Mode

Press **Set** to change the priority of selected TX in "AUTO" or "MANUAL" status. The management of the priorities has effect only when more faulties are present at the same time and come taken in consideration only the transmitters that are in automatic mode.

#### TXn

Shows the reference of the transmitter taken into consideration.

Switch #n

Press **Set** to change the transmitter taken into consideration in "NORMAL" (TX connected to antenna) or in "SWITCHED" position (TX reserve connected to antenna).

#### TXn Frequency

Shows the working frequency of the transmitter expressed in MHz.

TXn On/Off

Press Set to switches the selected TX On or Off.

TXn Forward

Shows the forward power of the transmitter expressed in W.

TXn Reflected

Shows the reflected power of the transmitter expressed in W.

TXn Vpa

Shows the transmitter amplifier module voltage expressed in V.

TXn Ipa

Shows the transmitter amplifier module current expressed in A.



#### 1.3.6 Alarm Delete Menu - Operator & Administrator



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

Values found here are "live readings", and as such they can not be modified.

Within this menu you can display the last 20 alarms saved by the system: any new event will automatically delete the older ones. Using **Reset** item at bottom right of the menu, you can delete all pending alarms.

This page shows the user the alarms of the exciter connected to the **TCPINT-SCM** interface:

		Ready!			
Menu selection	TYPE	NAME	TIME	DATE	VALUE
	769	Switch to load TX3	9:37	27/11/2015	37
User:	513	Switch to load TX2	9:36	27/11/2015	36
Info	257	Switch to load TX1	9:35	27/11/2015	35
Measure	9	Restart SCM	18:9	1/1/2000	34
Alarm List	769	Switch to load TX3	2:46	1/1/2000	33
	769	Switch to load TX3	2:25	1/1/2000	32
Operator:					
General					
Alarm Delete					
Administrator					
General					
Command					
Alarm Delete					
Password					
Network					
Mail					
				R	eset

Menu 9

Туре	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.



#### 1.3.7 Password Menu - Administrator



**TCPIPINT-SCMN** 

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

This page allows the confi guration of login as an administrator and maintenance of **TCPIPINT-SCM** interface via WUI:

Menu selection				
User:				
Info	una Deserved		Channel	
Measure Alarm List	user Password:		Change	
		NONE	Erase	
Operator:				
General	operator Password:		Change	
Command		NONE	Erase	
Alarm Delete				
Administrator:	admin Password:		Change	
General		NONE		
Command		NUNE	Erase	
Alarm Delete				
Network				
Mail				
	ATTENTION ! If the Administrator passwor	d is "NONE" the others pas	sword is forced "NONE" !	
	If the Operator password is	"NONE" the User password	is forced "NONE" 1	



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.

Operator Password

Shows and set the password for operator functions (parameter reading and partial change 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 full change enabling).

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



#### 1.3.8 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 **TCPIPINT-SCMN** interface network connection, but also allows setting various parameters.

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



**Nota :** to make changes within these sub-menus you need to have through technical knowledge of network management. It is recommended to have changes performed by trained or qualifi ed personnel.



**Note:** The IP address must be set to static and does not have the opportunity to acquire an address from DHCP server on network.





#### 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).



#### 1.3.9 Mail 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 sending messages through **TCPIPINT-SMN** interface network connection, but also allows setting various parameters.

Press the **Change Settings** button to confirm selection; if you let timer to time out, 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.

Menu selection	Sender Address:	TCP1@rvr.it		
Jser:	Destination 1:			
Info	Destination 2:			
Alarm List	Destination 3:			
	Destination 4:			
	Subject:	Test		
Dperator: General	Server Port:	25		
Command			Test Mail	
Alarm Delete	New Sender Address:	TCP1@rvr.it		
	New Destination 1:			
Administrator:	New Destination 2:			
General	New Destination 3:			
Command	New Destination 4:			
Alarm Delete	New Subject:	Test		
Password	New Server Port:	25		
Mail				
			Change Settings	

Menu 12

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..



# 2. Connecting to Internet network

In order to connect the system to the public network **TCPIPINT-SCMN** 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 **TCPIPINT-SCMN** directly to the public network but manage only the ports used by **TCPIPINT-SCMN** for the functions of the web interface and SMTP.

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

For sending the email **TCPIPINT-SCMN** uses port 25, modifiable.

To ensure that the **TCPIPINT-SCMN** 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 **TCPIPINT-SCMN** for WEB.

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

To send the e-mail system **TCPIPINT-SCMN** 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 **TCPIPINT-SCMN** must have a LAN IP different from each other.

- TCPIPINT-SCMN#1 IP 192.168.0.244 Port forwarding port 80 > port 80 of 192.168.0.244
- TCPIPINT-SCMN#2 IP 192.168.0.245 Port forwarding port 81 > port 80 of 192.168.0.245



With this configuration, the apparatus **TCPIPINT-SCMN** # 1 will be visible from WEB as http://public.ip and apparatus **TCPIPINT-SCMN** # 2 will be visible from as http://public.ip:81 WEB.

To send the Trap or Email being output there is no problem, as long as there are no restrictions on using port 25 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 **TCPIPINT-SCMN** 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 **TCPIPINT-SCMN**.

In case your nework **TCPIPINT-SCMN** 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.



# 3. External Description

This section describes the components found on the front and rear panel of **TCPIPINT-SCMN**.

## 3.1 Front Panel



Figure 6.1

[1] SERIAL

DB9 connector for interface to SCMLCDN+1.

#### 3.2 Rear Panel



Figure 6.2

[1] NETWORK RJ45 connector for connection to LAN network, ADSL router or PC.

**TCPIPINT-SCMN** 



# 3.3 Connector Pinouts

1

3.3.1 RS232

Type: Female DB9

NC

[		
Ļ	رو	

2	SDA
3	SCL
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

# 3.3.2 LAN

Type: female RJ45



1	TX+
2	TX-
3	RX+
4	NC
5	NC
6	RX-
7	NC
8	NC









**R.V.R Elettronica S.p.A.** Via del Fonditore, 2 / 2c Zona Industriale Roveri · 40138 Bologna · Italy Phone: +39 051 6010506 · Fax: +39 051 6011104 e-mail: info@rvr.it ·web: http://www.rvr.it

ISO 9001:2000 certified since 2000



The RVR Logo, and others referenced RVR products and services are trademarks of RVR Elettronica S.p.A. in Italy, other countries or both. RVR © 1998 all rights reserved. All other trademarks, trade names or logos used are property of their respective owners.