

DCS-IP-gateway

2620 97, 2620 98, 2620 99

GIRA

Contents

Device description	4
Connection terminals	5
Installation	6
Start-up	7
Finding the DCS-IP-gateway in the network	8
DCS-IP-gateway Finder	9
Gira Assistant	11
Possibility for teleservicing	13
Installing DCS Communicator	14
Audio Assistant	15
DCS Communicator	16
Resetting the DCS-IP-gateway to the state of delivery	17
Technical data	18
LED display	19
Appendix	20
Warranty	22

Device description

DCS-IP-gateway

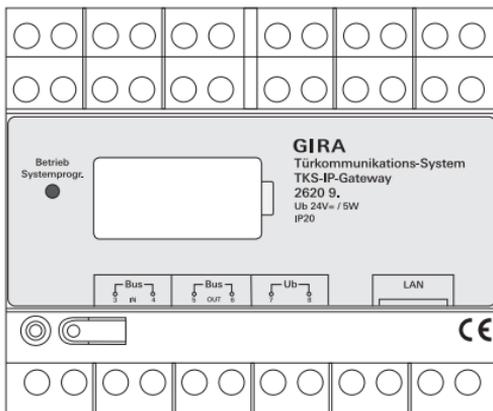
The DCS-IP-gateway converts signals from the Gira door communication system to the network protocol level (IP) and thus enables the integration of network-capable devices such as computers, video-IP telephones and IP cameras.

DCS Communicator

With the DCS Communicator software, common computers and PC-based operating devices such as the Gira Control 9 Client or Gira Control 19 Client can be used as home stations via the network connection. The DCS Communicator offers all the functions of a video home station such as accepting conversations, switching lights (in conjunction with a switching actuator) and opening doors.

License models

Several license models are available for the DCS-IP-gateway. The number of licenses determines how many devices (e.g. DCS Communicator, IP telephone, HomeServer plug-in) may be logged onto the DCS-IP-gateway simultaneously. It should be noted that the DCS Communicator can be installed on as many user PCs as desired.



Connection terminals

BUS IN

Connection for the incoming video signal from door stations with a video function or camera gateways on the Gira 2-wire bus.

Because the video signal in the DCS-IP-gateway is only routed in one direction, from BUS IN to BUS OUT, all door stations with a video function or camera gateways must be connected to BUS IN.

BUS OUT

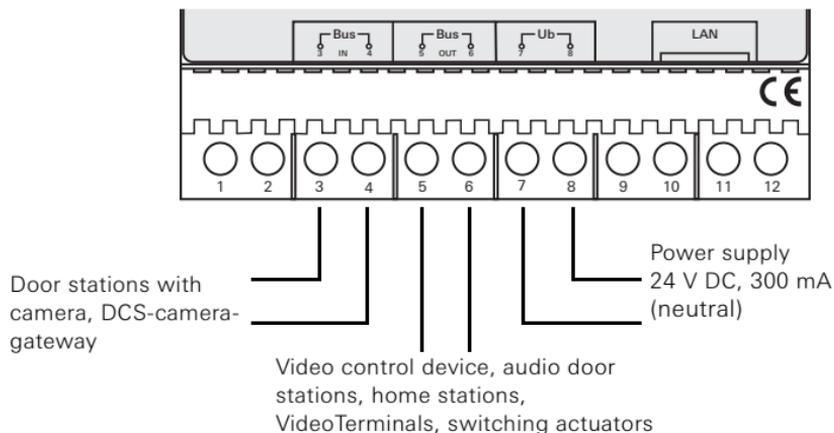
Connection of the DCS-IP-gateway to the video control device as well as all other door communication devices such as door stations with an audio function, home stations, VideoTerminals or switching actuators via the Gira 2-wire bus.

Ub

Connection for the power supply 24 V DC (neutral).

LAN

Link this connection to the router or switch using a network cable to maintain access to the network.



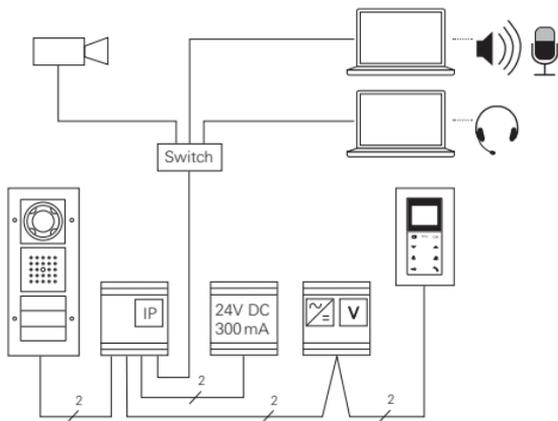
Installation



Important

Installation and mounting of electrical devices may only be carried out by a qualified electrician.

For installation protected from dripping and sprayed water, the DCS-IP-gateway is mounted on a top-hat rail in the distribution. The Gira 2-wire bus and the power supply are connected via screw terminals. The network connection is carried out via the RJ45 network connection socket 10/100 Mbit/s.





Assigning the DCS-IP-gateway to the video control device

At the beginning of start-up, the DCS-IP-gateway must be assigned to the video control device.

To do so, within 30 minutes of initially starting the DCS-IP-gateway (LED illuminates green), programming mode must be started on the control device.

If the time is exceeded, the DCS-IP-gateway must be completely disconnected from the power supply prior to retrying the assignment (power supply and bus voltage).

After installing all of the devices (door and home stations, control device, DCS-IP-gateway, IP camera, etc.) the door communication system can be started up.

When starting up the door communication system, observe the following sequence:

1. Assign analogue components (door and home stations, DCS-camera-gateway, etc) to one another and start them up.
2. Find DCS-IP-gateway in the network (see page S. 8).
3. Configure DCS-IP-gateway using the Assistant (see page S. 11).
4. Install DCS Communicator on the user PC (see page S. 14).

Finding the DCS-IP-gateway in the network

Start-up of the DCS-IP-gateway is via web interface. For this, the start-up PC must have a current web browser (e.g. Mozilla Firefox, Microsoft Internet Explorer, Apple Safari, Google Chrome).

For start-up, the start-up PC is connected to the network in which the DCS-IP-gateway is also located. The DCS-IP-gateway attempts to obtain an IP address via a DHCP server in the network.

Depending on the network type, there are several possibilities to call up the start page of the DCS-IP-gateway using web browsers:

A. There is an active DHCP server in the network

If DHCP (Dynamic Host Configuration Protocol) is activated in the network, dynamic IP addresses are assigned for the network components, i.e. all devices are automatically assigned an IP address.

In this case, **http://TKS-IP-Gateway.local** can be entered in the address line of the web browser to access the start page of the Assistant.



Windows XP

If the start-up PC uses Windows XP (without Bonjour® service), the **DCS-IP-gateway Finder** software included must be used to find the DCS-IP-gateway in the network (see page S. 9).

B. No DHCP server activated in the network

If the DCS-IP-gateway does not recognise a DHCP server in the network, the following IP address is used: **192.168.0.12**.

In this case, there are two possibilities to access the start page of the Assistant:

- Configure the start-up PC so that the address range 192.168.0.XXX can be accessed.

Then enter the IP address of the DCS-IP-gateway **192.168.0.12** in the address field of the web browser to access the start page of the Assistant.

- Use the included **DCS-IP-gateway Finder** (see page S. 9).

DCS-IP-gateway Finder

The **DCS-IP-gateway Finder** located on the included CD searches for DCS-IP-gateways in the network. The DCS-IP-gateway Finder is required e.g. when Windows XP is used as the operating system on the start-up PC or no DHCP is used in the network or if there is more than one DCS-IP-gateway in a network.

Firewall message

Depending on the firewall setting, the DCS-IP-gateway Finder could trigger a security warning. Please confirm the warning message with "No longer block" or "Allow access".



Starting the DCS-IP-gateway Finder automatically

The DCS-IP-gateway Finder starts automatically on PCs using the Windows operating system when the CD is inserted, searches the entire network and lists all of the DCS-IP-gateways located in the network with the corresponding IP addresses.

For PCs using the Mac OS operating system, the Finder must be installed on the start-up PC.

Installing the DCS-IP-gateway Finder

The DCS-IP-gateway Finder can also be permanently installed on the start-up PC. For this, please run the installation file **TKS-IP-Gateway-Finder_Setup.exe** (Windows) or **TKS-IP-Gateway-Finder_Setup.dmg** (Mac OS) on the included CD and follow the directions of the installation software.

The DCS-IP-gateway Finder lists all of the DCS-IP-gateways with the corresponding network parameters:

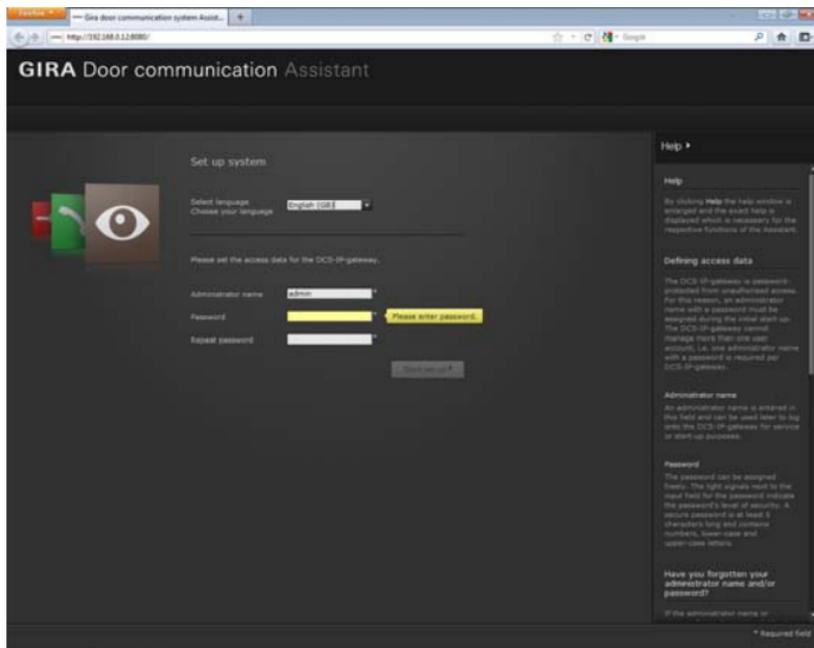
Host name	MAC address	IP address	Subnet mask	Gateway	Name server	DHCP
TKS-IP-GATEWAY	00:0A:83:10:01:2C	192.168.0.12	255.255.255.0	0.0.0.0	192.168.0.1	<input checked="" type="checkbox"/>

All network settings of the listed DCS-IP-gateways can be changed or adapted to the existing network in the DCS-IP-gateway Finder.

If the IP address of the desired DCS-IP-gateway is entered in the address line of the web browser of the start-up PC, the log-on screen of the Gira Assistant appears.

Gira Assistant

If the correct address of the DCS-IP-gateway is entered in the web browser, the log-on screen of the Gira Assistant appears after approx. 30 seconds.



The screenshot shows a web browser window with the URL <http://192.168.0.2.2000/>. The page title is "GIRA Door communication Assistant". The main content area is titled "Set up system" and contains the following elements:

- A language selection dropdown menu currently set to "English (US)".
- A section titled "Please set the access data for the DCS-IP-gateway." containing three input fields:
 - "Administrator name" with the value "Admin" and a required field asterisk.
 - "Password" with a yellow highlight and a tooltip that says "Please enter password".
 - "Repeat password" with a required field asterisk.
- A "Proceed" button.

On the right side, there is a "Help" sidebar with the following text:

Help

By clicking **Help** the help window is enlarged and the exact help is displayed which is necessary for the respective functions of the Assistant.

Defining access data

The DCS-IP-gateway is password-protected from unauthorised access. For this reason, an administrator name with a password must be assigned during the initial start-up. Storage cards that are used without a password or a password as required per DCS-IP-gateway.

Administrator name

An administrator name is entered in this field and can be used later to log into the DCS-IP-gateway for service or start-up purposes.

Password

The password can be assigned freely. The light symbol next to the input field for the password indicates the password's level of security. A secure password is at least 8 characters long and contains numbers, lower-case and upper-case letters.

Have you forgotten your administrator name and/or password?

If the administrator name or

* Required field

Defining access data

The DCS-IP-gateway is password-protected from unauthorised access. For this reason, an administrator name with a password must be assigned during the initial start-up.

Have you forgotten your administrator name and/or password?

If the administrator name or password is no longer available, the DCS-IP-gateway can be reset to the state of delivery using the Reset button. (see page S. 17).

Online help

The online help of the Assistant is located on the right edge of the screen. If the help is not visible, the help column is displayed by clicking on "Help". The online help is context-sensitive, i.e. it always adapts to the displayed page contents.

Type and scope of the assistants

The Gira Assistant is divided into several individual assistants. The number and type of the individual assistants is determined by defining the scope of the system. That means that only those assistants should be processed which are necessary for each door communication system with the respective components used.

Processing sequence

The processing sequence of the individual assistants is arbitrary. However, processing the assistant from top to bottom is recommended.

Assistant which have already been visited and processed are indicated with a filled-in dot at the end of the line. Moreover, the "Edit" button then becomes visible in some assistants.

The assistants can be called up again to carry out modifications or additions at any time via the Edit button.

Possibility for teleservicing

For teleservicing via the Internet, a secure HTTPS connection can be established to the Assistant. In doing so, all data is transferred encrypted via HTTPS (Hypertext Transfer Protocol Secure). For this, the Assistant is called up in the browser at **https://**"IP address of the DCS-IP-gateway".



Rerouting public port to port 443

For teleservicing, a public port must be rerouted to the DCS-IP-gateway HTTPS port 443 in the router or in the firewall.



Error message: "Invalid certificate"

In some web browsers, an error message indicating a problem with a security certificate appears when opening the log-on screen of the DCS-IP-gateway. Please ignore this error message and allow the website to be loaded.

Installing DCS Communicator

The Gira DCS Communicator is the home station on the user PC.

To install it, the installation file must first be downloaded from the DCS-IP-gateway:

1. Call up the Assistant of the DCS-IP-gateway with the web browser.
 2. Click on "Install DCS Communicator on client PC" in the administration area of the Assistant and select the desired operating system.
- ✓ The file **TKS-Communicator_Setup.exe** (Windows) or **TKS-Communicator_Setup.dmg** (Mac OS) is downloaded from the DCS-IP-gateway and can then be saved, e.g. on a USB stick.
3. Copy the respective installation file to the user PC and run it locally there.
 4. Follow the directions of the installation software for the further installation.

Installation with Mac OS

After running the installation file, both app files must be pulled into the application folder.



Firewall message

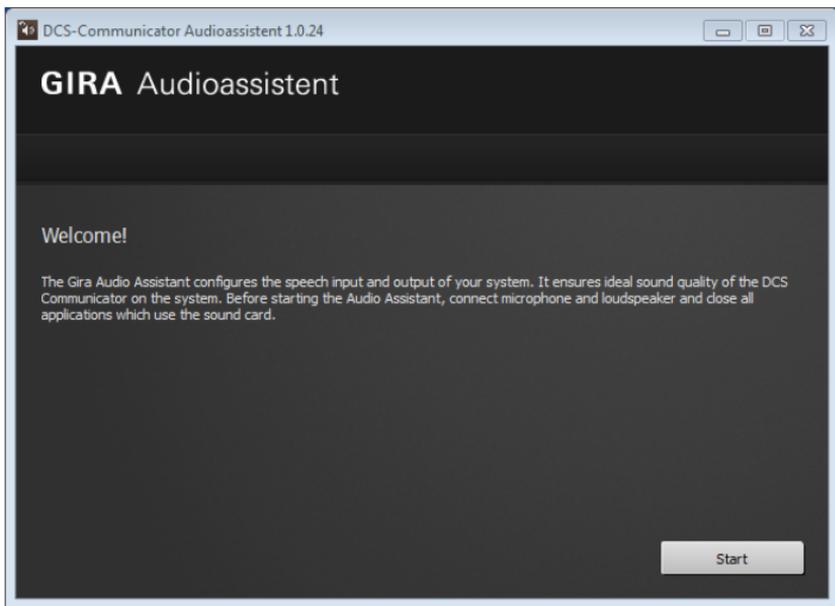
Depending on the firewall setting, the initial start of the DCS Communicator could trigger a security warning.

Depending on the operating system, please confirm the message with "No longer block", "Allow access" (Windows) or "Open" (Mac OS).

Audio Assistant

During the initial start of the DCS Communicator, the information appears that the Audio Assistant should be run on the user PC. Please confirm the information message with "OK" to start the Audio Assistant.

With the Audio Assistant, the acoustic properties of the microphone and the loudspeaker on the user PC are optimised and adjusted automatically. Please start the Audio Assistant and follow the instructions on the screen.

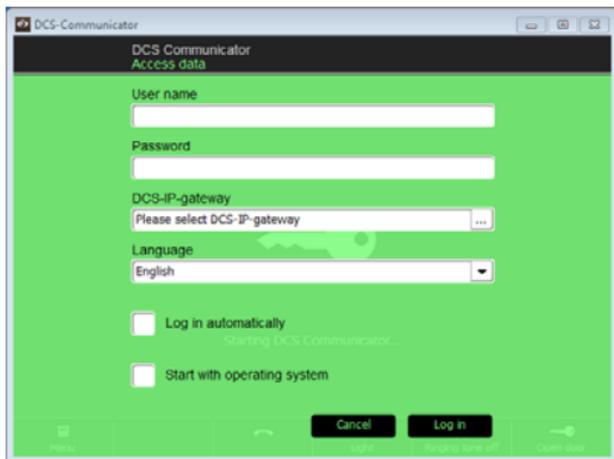


Exchanging audio components

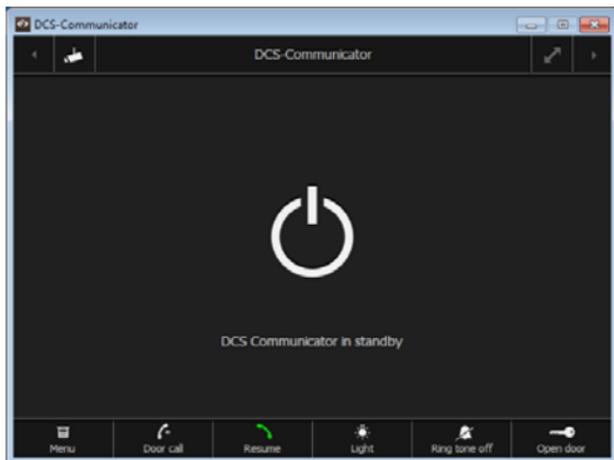
If the audio components on the user PC are replaced (e.g. with a new headset), the Audio Assistant must be run again.

DCS Communicator

When starting the DCS Communicator, the user name and password must be entered:

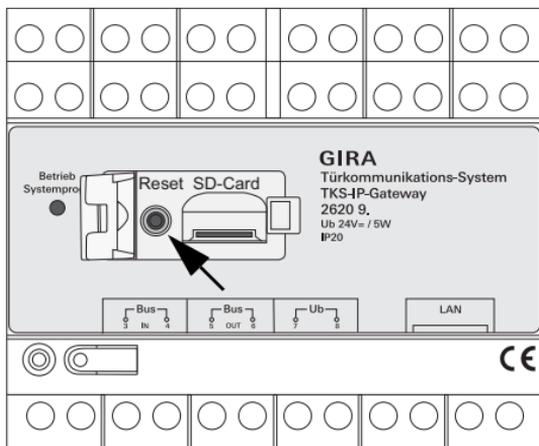


After successfully logging on, the interface of the DCS Communicator appears:



Resetting the DCS-IP-gateway to the state of delivery

If the administrator name or password is no longer available, the DCS-IP-gateway can be reset to the state of delivery using the Reset button. The Reset button is located behind the cover plate on the front of the DCS-IP-gateway.



Important

When reset, the DCS-IP-gateway loses all its settings (incl. network settings) and is reset to the state of delivery.

Subsequently the DCS-IP-gateway must be reconfigured or a setting which was saved in advance can be restored.

To reset the DCS-IP-gateway to its state of delivery:

1. Press the Reset button on the DCS-IP-gateway for 6 seconds.

✓ The LED illuminates yellow after 3 seconds.

✓ The LED flashes yellow after 6 seconds.

2. Release the Reset button.

✓ The LED illuminates yellow, the device is reset to factory settings and restarted.

✓ The LED illuminates green, the restart is completed and the device is ready for operation.

Technical data

Power supply:	24 V DC (neutral), 300 mA
Connections:	2 screw terminals for power supply 2 screw terminals BUS IN 2 screw terminals BUS OUT 1 RJ45 network connection, 10/100 Mbit/s
Temperature range:	-5 °C to +50 °C
Memory card:	MicroSDHC card up to max. 32 GB
Ringing tones:	10 .wav files up to max. 5.5 MB each
Dimensions:	6 HP
Power consumption:	1.6 W (standby) 5.0 W (conversation mode)

Minimum requirements of the start-up PC

Operating system:	Windows XP, Windows Vista, Windows 7, Mac OS X 10.6
Web browser:	Internet Explorer from Version 8 Mozilla Firefox from Version 3.5 Google Chrome from Version 7 Apple Safari from Version 4
Network connection:	Ethernet 10/100 Mbit/s
RAM:	1 GB RAM
Processor:	from Intel Pentium 1.7 GHz or 100 % compatible processor

Minimum requirements for the DCS Communicator (user PC)

Operating system:	Windows XP, Windows Vista, Windows 7, Mac OS X 10.6
Network connection:	Ethernet 10/100 Mbit/s
RAM:	2 GB RAM
Disk space:	100 MB
Processor:	from Intel Pentium DualCore, 2,2 GHz or 100 % compatible processor
Audio components:	Sound card, loudspeaker and microphone

LED display

The operating LED on the DCS-IP-gateway signalises the following states.

Operating LED	
Illuminates green	Trouble-free normal operation
Flashes green	System programming mode active
Illuminates yellow	Restart of the device / Booting phase
Flashes yellow	During the reset process or during a firmware update
Illuminates red	No additional supply connected
Flashes red	Connection to the Gira 2-wire bus missing/faulty

Appendix

Transport layer	Protocol	Port	from	to	Intended use	Bidirectional
UDP	proprietary	31337	DCS-Communicator	Broadcast	Detection DCS-IP-Gateways in the local network	-
UDP	proprietary	31337	DCS-Communicator	DCS-IP-Gateway	Detection DCS-IP-Gateway in the VPN-network	yes
UDP	proprietary	31337	DCS-IP-Gateway Finder	Broadcast	Detection DCS-IP-Gateways in the network	-
UDP	proprietary	31337	DCS-IP-Gateway	DCS-Communicator	Detection DCS-IP-Gateways in the local network	-
UDP	proprietary	31337	DCS-IP-Gateway	DCS-IP-Gateway Finder	Detection DCS-IP-Gateways in the local network	-
UDP	SIP	5060	DCS-Communicator	DCS-IP-Gateway	Protocol for SIP-telephony	yes
UDP	SIP	5060	external SIP-Telefon	DCS-IP-Gateway	Protocol for SIP-telephony	-
UDP	SIP	depending on sip-phone default: 50600	DCS-IP-Gateway	external SIP-Telefon	Protocol for SIP-telephony	no
UDP	RTP	7078	DCS-Communicator	DCS-IP-Gateway	audio data	yes
UDP	RTP	7078	external SIP-Telefon	DCS-IP-Gateway	audio data	no
		depending on sip-phone default: 7078	DCS-IP-Gateway	external SIP-Telefon		no
UDP	RTP	9078	DCS-Communicator	DCS-IP-Gateway	video data	yes
UDP	RTP	9078	external SIP-Telefon	DCS-IP-Gateway	video data	no
		depending on sip-phone default: 9078	DCS-IP-Gateway	external SIP-Telefon		no
UDP	SIP	5060	Mobotix x24-Camera	DCS-IP-Gateway	Protocol for SIP-telephony	no

Transport layer	Protocol	Port	from	to	Intended use	Bidirectional
UDP	SIP	depending on Mobotix Camera settings default: 5060	DCS-IP-Gateway	Mobotix x24-Camera	Protocol for SIP-telephony	no
UDP	RTP	9058	DCS-Communicator	Mobotix x24-Camera	video data	no
UDP	RTP	9000-9999	DCS-IP-Gateway	external RTSP-Camera	RTSP-Stream IP-Cams	yes
TCP	RTSP	freely configurable default: 554	DCS-IP-Gateway	external RTSP-Camera	RTSP-Stream IP-Cams	yes
TCP	proprietary	freely configurable default: 50050	DCS-IP-Gateway	GIRA Home-Server	encrypted data communication	yes
UDP	proprietary	freely configurable default: 55555	Quadclient-PC	DCS-Communicator (Local-Host)	Remote control of the DCS-Communicator via UDP-telegrams	no
UDP	proprietary	freely configurable default: 55554	DCS-Communicator	Broadcast	status messages for remote controle of the DCS-Communicator via UDP-telegrams	-
TCP	http	80	external PC	DCS-IP-Gateway	Access for the webinterface. Portforwarding to Port 8080	yes
TCP	http	8080	external PC	DCS-IP-Gateway	Access for the webinterface.	yes
TCP	https	443	external PC	DCS-IP-Gateway	Secure access for the webinterface	yes
UDP	proprietary	freely configurable default: 55554	DCS-Communicator	Broadcast	status messages for remote controle of the DCS-Communicator via UDP-telegrams	-

Warranty

The warranty is provided in accordance with statutory requirements via the specialist trade.

Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/electrical specialist trade).

They will forward the devices to the Gira Service Center.

Gira
Giersiepen GmbH & Co. KG
Electrical Installation
Systems
P.O. Box 12 20
42461 Radevormwald
Germany
Phone +49 (0) 21 95 / 602 - 0
Fax +49 (0) 21 95 / 602 - 191
www.gira.com
info@gira.com

GIRA