# Rittal – The System.

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# Ethernet communication for Blue e Chiller and VX25 Chiller





ENCLOSURES

POWER DISTRIBUTION CLIMATE CONTROL

IT INFRASTRUCTURE > SOFTWARE & SERVICES

FRIEDHELM LOH GROUP

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#### EN

# 1 WEB Server

## 1. WEB server

EN

For a supervision of the machine even remotely in the controller is integrated a WEB interface with customized pages. In these pages you can view the progress of the machine, customize some parameters and check the machine alarms.

#### 1.1 First access and main menu

To connect to the dedicated WEB server first of all make sure that the controller is connected to the local network via the Ethernet-LAN port directly on the card.



Once the card is connected, change the IP of your computer with the following data:

IP: **192.168.1.xxx** (es: 192.168.1.2) Gateway: **255.255.255.0** Mask: **0.0.0** DNS: **0.0.0** 

Once the connected, enter "**192.168.1.100/Rittal/Index.html**" address in the browser and replace IP-address with the local IP address of the controller.

#### (default setting → DHCP)

If the connection is successful, the following login page will appear. The data for the first access are:

- Username: admin
- Password: admin



Once logged in, the login will last 30 min.; then you will need to re-enter the credentials.



Once logged in you will be redirected to the corresponding homepage.



## 2. Machine Information

In this box are displayed different information on the operation of the machine and some parameters that are only viewable.

<b>SK</b> : 33364	10			•	Link to commissioning
Machine Configuration	*	n° 0			N° Machine configuration (not modifiable)
Unit Status	٢	OFF			Machine status ON/OFF (editable)
OUT Temperature	1	28.7 °C	2		
IN Temperature		°C	2	<b>~</b>	Real-time temperature probes on the machine
Ambient Temperature		15.7 °C	:		
AntiFreeze Temperature	8		:		
Compressor Status	9	OFF			
Pump Status		OFF -		>	Status of current compressors, pumps, fans
Fans Status		OFF		i	
Setpoint	ž.L	18.0 °C	:		
Setpoint (Actual)		18.0 °C	;	>	Main setpoints and modes of operation (viewable only)
Operating Mode		ABS			
Other Info & O	ptiona	d 👘		_	
		_		→	Unavailable → To be implemented

To change the status of the machine in ON/OFF you have to click the Unit Status icon 0 (off) 0 (on), when the following page will show up click the box and confirm with the checkmark.





To turn on / off the machine you have to click the box and then confirm with the check.

## 3. Menu bar

ΕN

#### 3.1 Homepage

Homepage addressing

#### 3.2 Main setup

In the main setup there are some main parameters of the machine. To access the pin is **2 2**. To change the parameters simply change the current values and confirm with the checkmark to set them on the machine.



To turn on / off the machine you have to click the box and then confirm with the check.



#### 3.3 Advanced Setup

The advanced setup allows you to view the configuration of the machine. To access the pin is 111.





Ethernet communication for Blue e Chiller and VX 25 Chiller

#### 3.4 Details Machine

The Details Machine menu provides additional model information and machine details.

User Details					
	DET	TAILS			
Name	: к	RAE-TTC3 Cł	niller		
Location	: C	ustomer Site			
Contact	: se	ervice@rittal.d	e		
Model SK	: 3	336410			
Serial Number	: 2	)22 K	000057774		
Manufacturing Da	ite: 🙎	6 04	2022		
÷		C	<ul> <li>Image: A second s</li></ul>		

#### 3.5 Manufacturer

In the manufacturer menu you can vary certain machine parameters (you do not need to turn off the machine to change them but it is recommended). This parameters change the operation of the machine, including valves and alarm management

	P/	AF	RAMETERS		
H	MAIN SETPOINT		New Value		(23.1)
	Setpoint (Abs/Comp)		18.0	°C	
	Setpoint (Diff)		-2.0	°C	
	Mode Regulation		ABS 🗸		
	Hysteresys		2.0	°C	
	Min. Set.		10.0	°C	
	Max. Set.		25.0	°C	
	Ps1 Amb. Set.		10.0	°C	
	pHc max.Set.REL		25.0	°C	
	pLc min.Set.REL		10.0	°C	
	Pce Slope	:	1.0	°C	
X	TEMP ALARM		New Value		( 23.1 )
	Max. temp. ABS		40.0	°C	
	Min. temp. ABS		8.0	°C	
	Min/Max temp. ABS		5.0	°C	
	Delay alarm		10	sec	
	Reg.Mode (Abs/Rel)	:	ABS 🗸		
•	ANTIFREEZE		New Value		( 23.1 ).
	Setpoint		-3.0	°C	
	Hysteresis	:	3.0	°C	
	HGBP BY-PASS		New Value		(~ 23,1° ).
	Setpoint ABS		10.5	°C	
	Setpoint REL		1.0	°C	
	Hysteresis		0.3	°C	
	Reg.Mode (Abs/Rel)		REL ¥		
	Offset bypass		1.0	°C	
	Ti bypass	:	150	sec	
١	PRE-HEATER		New Value		( 23.1 )



3.6 Alarms Overview



#### 3.7 Configuration

In the configuration section there is several information and features that will be explored in more detail in chapter 5

helenot
1080 CB
gylan
Constant Department Department Teacher
Coxing System
W configuration
G

# 3 Menu bar

To access the various sections for the first access it is necessary to enter the following credential

- username: admin
- password: admin



TCP / IP

Network				
<b>М</b> ТСРИР				
System				
	Contraction Press			×
Austra Austra	= * • 2		Cfiel	d
Contraction	E System	Amination	System	^
General	🖵 p901			
IV IV Configuration	1 11/1/1	Name SW007	Boot #4.8.003	
	Aatta	Configuration P8 SV(037V0-1	Core hose 2	
	1 unt	Current cycle time 44 ms	Controller type uPC3	
12		Max cycle time 1027 ms	Board type Medium	
	🖉 Log		MAC 00-0A-5C-C1-15-5C	
	S University		Tera C461C560	
	<b>•</b>	werbory	Plugins -	
	🖌 Parameters			
	A	Type Size [MB] Free [MB]		
	<ul> <li>upgrade</li> </ul>	RAM 14.5 13.1	Network	
	O Clock			
	-	Troe Size (MB1 Free (MB1	Hostrame	
	With Interface	The see (see) the lead		

Details

Network			
Срая			
dysten			
Details Date Times Depiry V Process			
Province Starting	Ortails		×
	= * 0	c	
Or General Configuration		₫ ⊗•	i
	Analog inp	d	
13	Pin	B1	
M	Type Name	Carel NTC AnUniv1.Val_HW	
	Description Value	AIN - Universal 1 - Value hardware 28.69	
	Pin	B0 Crass MTC	
	Name	AinUniv2.Val_H/I	

Date / Time

Network		
TCRIP		
System		
Details Defaultion	Constant Config	
Cooling System	= କ ଭୂ ଅ	
Al and	System Clock	
IOM cartigueston	Device local time	Tue, Jun 20, 2022 10:43:13 PM
		Sync with pc lime
€	Mode	Marcal -
_	Timezone	(UTC+01.00) Amsterdam, Berlin, Bern, Rome, Stockholm, V •
	Server 1	
	Server 2	
		Save

Display

Solvadi.		
ТСРВО		
System		
Date/Tree Date/Tree Update		
Cevilies Shiftern	Tauch Doplay X	
A and	= • • • o	
ICD6 Configuration	A 28/06/22 Tue 22:44	
F.8	MAIN PAGE	
	6 Unit status:	
	OFF BV KEVBOARD	
	<u>hu</u> / <u>h</u> (2	

Firmware Upgrade

Network				
💉 тсяляя				
System				
	h	and Up	yata an	×
-		ñ	e_ c	<u>c</u> fleld
Coop System		Syste	n	Upload
TTTT Comparison	4	Аат	5	Choose the
73	3	Unit		Uplead
	8	Log		
	8	Variat	ies.	llemate
	*	Ubara	de	Select the apt package
	0	Clock		Choose Me
		Hop.	and and	Upgaae

General Configuration

Network										
TCPUP										
System										
	Permant Lograde							×		
distant distant	≡ ୶ ଭୁଙ						C.Fi	eld		
	Bysten 3	Without category						1		
General	🖵 pG01	Unselect all						- 11		
at the cange and	Alanns	Search	0	4 5 a	τ	с п	8	1.		
	<b>1.</b> Uni	Name	Description :	Categories	Min	Max	init			
←	🖉 Log	#_ger_5(pe	General alarm							
	S Variables		type (0-alarm-warning (sonly alarm)					- 1		
	Parameters	alam Logic	DO general					1		
			alants - Logic (0- NO(1-NC)							
	O Clock	Analog_Ch_3vayvalve	AO 3way valve - ch.no		15	4%		0		
	I Link interfere	12.00	100							

#### 3.8 More features in the menu bar

#### Touch display:

This touch display has the same functionality as the touch in the main menu (See chapter 3) but is displayed in a separate tab.

#### Password change:

You can change the password to access the site **but not the Username that always** remains admin.



## 4. Virtual Touch Display

Some features of the machine's physical touch display have been replicated in its own digital form (only visualization) avaiable in the home page and in a separate tab (see chap 3.8).

Including:

- Real-time display of the temperature of the reference probe
- Alarm signals
- Compressor/pump/valve status (ON-OFF)

Touch Display

# 5. Alarms

In the event of an alarm of any kind on the machine, an error message appears on the display that will remain active until it is resolved. The alarms will only be displayed, in case of manual reset it is still necessary to go directly to the machine to disable the error message.



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The information on the type of date and time alarm is displayed at the bottom of the homepage and is reset only when the alarm is deactivated (you can also view the alarm data in alarms overview menu but not the time).

TimeStamp	Severity	Alema Messaget
2022/06/29 20:31:33	Alarm	- High Pressure Switch Alarm
2022/06/29 20:31:42	Alarm	- Low Pressure Switch Alarm
2022/06/29 20:31:44	Alarm	- Electric Level Switch Alarm
2022/06/29 20:31:32	Alam	- Campressor Mator Protection Switch Alarm
2022/06/29 20:31:32	Alarm	- Fan Mater Protection Switch Alarm
2022/06/29 20:31:33	Alam	- Punp Motor Protection Switch Alarm
2022/06/29 20:31:35	Alarm	- Phase Control Alam

# 6. Commissioning (only for Service)

The Commissioning web pages are dedicated to the management and supervision of the machine operation. To connect:

- The board must be powered
- Connected via ethernet port to the network
- USB disconnected

- Enter "*ip-address/commissioning/index.html*" in the browser



Within the commissioning there are several sections:

- System
- pGD1
- Alarms
- Unit
- Log
- Variables
- Parameters
- Upgrade
- Clock
- Web interface

#### 6.1 System

It contains various information about the machine controller and the currently installed software version.

System	Application			System	
pGD1					
Alarma	Name		5W037	Boot	v4.6.003
	Configuration		P8 8W037V0-1	Core Noe	2
UNIC	Current cycle time		45 mi	Controller type	uPC3
	Max cycle sme		1000 ms	Board type	Medura
Log				UD	001006000002217A
variables	Manage			Tera	C491C56D
	manary			Plugins	
Parametera	7/24	Size (MD)	Free (MD)		
Upgrade	PAM	14.5	13.1	Network	
Clash					
	2	film DIFF.	Free Date	Hostname	
Web interface	1994	are lead	a reaction of	nONS	
	Private (NAND 0) Events (NAND 1)	30	26.4		Stave
	USB mass storage (MSD 0)				
	Media card (MMC 0)			~	1.12
				P <sup>2</sup>	14,70,01,01
				- CONK	232232220
				Calservey	10.15.31.1
				0.0	Seve
				L	

Furthermore, in this section it is possible to change the IP address of the chiller in the "Network" section:

Network	
Hostname	
mDNS	Save
IPv4	Auto 👻
IP	10.75.31.51
Mask	255.255.255.0
Gateway	10.75.31.1
DNS	10.75.4.11
	Save

To change the address, first change the IP to the desired value and click Save.

If needed is possible to change in DHCP instead of using a fixed IP address. To do that, just change the voice of iPv4 from manual to auto and then connect to the local network.

#### 6.2 pGD1

Digital version of the pGD1 display with the simulation of Carel's base software.



#### 6.3 Alarms

List of alarms recorded since the software is loaded. All stored data can be exported to an Excel file.

					<i>K</i> 8	• C = 8
	Start time	+ Stop time	0 Name	Description	Sample 1	Sample 2
Auto	22/06/2022 22:17:18	22/06/2022 22:17:35	al_q_comp.Active	Breakar switch compressor 1		
Unit	22/06/2022 22:10:39	22/06/2022 22 11:04	al_q_comp.Active	Breaker switch compressor 1		
Log	22/05/2022 22:04:35	22/06/2022 22:07:40	al_q_comp.Active	Breaker switch compressor 1		
Vocation .	22/06/2022 18:45:57	22/06/2022 19:25:24	al_ctActive	Phase monitoring		
THE REPORT	22/06/2022 10:45:55	22/06/2022 19:25:24	al_q_pump.Active	Breaker switch pump 1		
Parameters	22/06/2022 18:45:55	22/06/2022 19:25:25	al_q_comp.Active	Breaker switch compressor 1		
Upgrade	22/09/2022 16:45:54	22/06/2022 19:25:24	al_q_lanActive	Broaker switch faits 1		
007	22/06/2022 17:20:34	22/06/2022 17:22:01	at_le.Active	Level switch 1 (H-C)		
	22/06/2022 17:20:32	22/06/2022 17:22:03	al_pb Active	Low pressure switch 1		
Web interface	22/06/2022 17:20:25	22/06/2022 17:22:02	al_cf.Active	Phase monitoring		
	22/06/2022 17:20:24	22/06/2022 17:22:03	al_pa Active	High pressure switch 1		
	22/06/2022 17:20:23	22/06/2022 17:22:04	al_q_comp.Active	Breaker switch compressor 1		
	22/06/2022 17:20:23	22/06/2022 17:22:03	al_q_pump Active	Breaker switch pump 1		
	22/06/2022 17:20:23	22/06/2022 17 22:03	al_q_tan.Active	Breaker switch fans 1		
	21/06/2022 23:57:58	21/06/2022 23:58:29	al_q_comp.Active	Breaker switch compressor 1		



- 1. Reset active alarms
- 2. Alarm log cleaning
- 3. Settings to change the refresh time of the alarm control and the separator character during export



- 4. Refresh the alarm log
- 5. Export in .xlsx
- 6. Data displayed in columns:

#### 6.4 Unit

Real-time machine Input and Output list

e_ ≎										
1										
	0.40	alog innet				. An	log output			
		and all the					ang carpet			
	Pin	* Туре (	Name	Description	U Volue	Pin	Туре	Name	Description	Volue
	01	Carel NTC	ANUNATING HIT	AIN - Universal 1 - Value hardware	25.09	11	0-10 V	AppUnit/Mi_HW	AOUT - Universal 1 - Value hardware	0
	82	Carel NTC	ARUNA VE. HIL	AIN - Universal 2 - Value handware	15.69	72	0.10 V	Add/Univ2.Vol. HW	AOUT - Universal 2 - Value hardware	0
es.	53	Carel NTC	AnUnio Vie_HVI	AIN - Universal 5 - Value hardware	2.09	15	0-10 V	AputUmN3.VM_HW	AOUT - Universal 3 - Value herdware	0
des	84	Carel NTC	ARUNNA VSL HW	AIN - Universal 4 - Value handware	3.96	¥4	0.10 V	ADUDUNA VOLHW	AOUT - Universal 4 - Value hardware	0
	05	Carel NTC	AnUnits Vil_HW	AIN - Universal 5 - Value hardware	22.05					
se .	86	Carel NTC	ANUNYS VIE HW	AIN - Universal 6 - Value handware	18.35					
	87	Carel NTC	ANUNATINE_HII	AIN - Universal 7 - Value hardware	15.46					
And Taxa	88	Carel NTC	ANUNVEVE HW	AIN - Universal 8 - Value handware	20.04					
	59	Carel NTC	ANUNN9 VIE_HW	AIN - Universal 9 - Value hardware	91.05					
	810	Carel NTC	Alsoniv10.Vol_HW	AIN - Universal 10 - Value hardware	36.01					
	011	Carel NTC	ANUMITING HW	AIN - Universal 11 - Value hardware	21.16					
	812	Carel NTC	AnUniv12.Val_HW	AIN - Universal 12 - Value hardware	12.6					
	• Da	ital kgul				🔶 Day	lat output			
	Pin	• туре о	Name 0	Description	0 Value	Pin	Туре о	Name 0	Description	· Value
	101	Standard	Distant Val_HW	DIN- Universal 1 - Value hardware		N01	Standard	DoutUniv1.Val_HW	DOUT - Universal 1 - Value handware	
	102	Standard	DHUNK2.VIE_HW	<b>DIN- Universal 2 - Value hardware</b>		NO2	Standard	DoufUniv2.VM_HW	DOUT - Universal 2 - Value hardware	
	103	Standard	Distanv3.Val_HW	CIN- Universal 3 - Value hardware		NO3	Standard	DoutUniv3.Val_HW	DOUT - Universal 3 - Value hardware	
	104	Standard	DRUNN4.MILHW	<b>DIN- Universal 4 - Value hardware</b>		NO4	Standard	DoutUniv4.VM_HW	DOUT - Universal 4 - Value hardware	13
	105	Standard	DisUniv6.Val_HW	<b>DIN- Universal 5 - Value hardware</b>		NOS	Standard	DoutUniv6.Val_HW	DOUT - Universal 5 - Value hardware	52
	106	Standard	DISUNKS.VIE_HW	DIN- Universal 6 - Value hardware		NOS	Standard	DoutUniv6.Val_HW	DOUT - Universal 6 - Value hardware	53
	107	Standard	DisUsiv7.Val_HW	CIN- Universal 7 - Value hardware		N07	Standard	DoutUniv7.Val_HW	DOUT - Universal 7 - Value hardware	
	174	STREET, ST	The set of the set	TIM Descent A Make Replaces		ALC: N	#1004000	The state of the later.	POULT I MANUAR MANAGEMENT	



1. Change page view

2. Data displayed in columns

#### 6.5 Log

Report of the controller errors (not machine alarms).

=	* <u>0</u> 2	■ Field
8	System	No log avalitable
Q	pGD1	
	Alarris	
Э,	Unit	
	Log	
	Variables	
×	Parameters	
*	Upgrade	
0	Clock	
	Web interface	

#### 6.6 Variables

Variable list with real-time values managed by the software. You can graph multiple values at once and export the data to an Excel file. You can also rewrite the values of the Attention variables (see manual for service).

							C.F.(e
System	Without category						
pGD1	Unselect all						
Alerra					Search	5 K 0	0 0 8-
	Name	Description	Categories	Min	Max	Value 0	Plot (
🖉 Log	AisUsv1.ChEr	AIN - Universal 1 - Channel error				10	
Voriaties	AisUniv1.ChTyp	AIN - Universal 1 - Channel type				0	
<ul> <li>Occurrence</li> </ul>	AirUniv1.MatUm	AIN - Universal 1 - Maximum limit				0	
- Palameters	AirUniv1.MinLin	AIN - Universal 1 - Minimum limits				0	
Upgrade	AltUnv1.V#_H//	AIN - Universal 1 - Value hardware				28.69	
D Clock	All/UNV10.ChEll	AIN - Universal 10 - Channel error				10	0
_	AirUnv10.ChTyp	AIN - Universal 10 - Channel type	•			0	
Web interface	AirUniv10.MaxUm	AIN - Universal 10 - Maaimum limit				0	
	AisUniv10.MinUm	AIN - Universal 10 - Minimum limiti				0	
	AlsUsiv10.Val_HW	AIN - Universal 10 - Value hardware				36.81	
	AisUsiv11.ChErr	AIN - Universal 11 - Channel error				10	
	AisUsiv11.Ch7yp	AIN - Universal 11 - Channel type				0	
	AirUniv11.MaxLim	AIN - Universal 11 - Maximum limit				0	
	AisUsiv11 MeLim	AIN - Universal 11 - Minimum Imiti				0	
	AmUniv11.Val_HW	AIN - Universal 11 - Value hardware				21.16	
	AmUniv12.ChEm	AIN - Universal 12 - Channel error				10	
	AinUniv12.ChTyp	AIN - Universal 12 - Channel type				0	
	AirUniv12.MasLim	AIN - Universal 12 - Maximum Irrit				0	
	AirUniv12.MinLim	AIN - Universal 12 - Minimum limiti				0	
	AinUniv12.Val_HW	AIN - Universal 12 - Value hardware				12.6	
	AisUsiv2.ChErr	AIN - Universal 2 - Channel error				10	



- 1. Writing Variables
- 2. Graph
- 3. Settings to change the alarm control refresh

time and separation character during export

Setting	S	×
Refresh interval (s)	5	
Separator character used during the export		

- 4. Refreshing variables
- 5. Change Table View
- 6. Data displayed in columns:

#### 6.7 Parameters

In this tab are present all the parameters of the machine. They can be exported to create different parameterizations and import later to apply them.

system	Without category								
pG01	Unselect all								
Alams					9	earch		0 ± 6 8 T 0	. 8.
Unit	Name	* Description	0 Categories	Min	Max	init	Dev	Actual Val	Imported
Log	al_gen_type	General alarm type (Dralarm-warning: 1=only alarm)					5	5	
Vatablas	alam Logic	DO general alarms - Logic (0-NO:1-NC)					13	2	
	Analog_Ch_3waysalwa	AO Dealey vallee - ch no		0%	4%		0%	0.5	
Parameters	Analog_Ch_3wayvalve_exp	AO 3way valu on pCOe - ch no		0%	15		0%	0%	
Upgrade	Analog_Ch_Bypass_1	AO bypass circuit 1 - ch.no		0%	4%		0%	0%	
Cart	Analog_Ch_Bypass_2	AO bypass circuit 2 - ch.no		0.%	4%		0%	0%	
	Analog_Ch_pump1	AO pump speed circuit 1 - ch.no		0.%	4%		0.16	0%	
Web interface	Analog_Ch_pump2	AO pump speed circuit 2 - ch.no		0.%	4.%		0.%	0.%	
	aut	Enable automatic reset alarm					22	2	
	aut_hp_digitale	Enable automatic reset alarm HP							
	Band	Proprioral band 3 way valve		010	99.9 °C		6 °C	6.0	
	Band_pumps	Proportional band pumps regulation		0 bar	99.9 bar		8.1 ber	8.1 bar	
	bof	Buzzer managing		0 min	15 min		2 min	2 min	
	0AD	Regulation type 3 way value (0+AES; 1+C677)						0	
	ď	Minimum time on compressor		0 min	3 min		0 min	0 min	
	CD	Minimum time on to on same compressor		0 min	10 min		1 min	1 min	
	cord_type	Partialization fan type (0+no; 1+PV; 2+PC8-Inverter)		0	2		0	0	
	3	Delay on compressor after on chiller		0 min	10 min		2 min	2 min	
	c81	Regulation type intermediate exchanger 1A (0+ABS: 1+DIFF)							
	c52	Regulation type intermediate exchanger 18 (0+ABS; 1+DIFF)							
	ch	Load up compressors		0 min	999 min		0 min	0 min	
	d out brasss 2 Logic	DO bypass circuit 2 - Logic (5-NO(1-NC)						0	



- 1. Info
- 2. Write parameters
- 3. Import .dev files
- 4. Save the current parameters file
- 5. Filter
- 6. Updating variables
- 7. Change Table View
- 8. Data displayed in columns

#### 6.8 Upgrades

For software updates.

System	Upland	
pGD1	Tables The Star In APPENDING Tables	
Alams	optional life files to the Life in review can lower	Choose Be
Unt	Upload	
Log		
Variables		
Parameters	Upgrade	
Upgrade	Select the apt package	
Clock		Choose file
Web interface	Upgrade	

#### 6.9 Clock

The time and date of the controller.

≡ <b>#</b> 0_0				c.field
System	System Clock			
₽ p301	Device local time	Wed, Jun 29, 2022 4:57:05 PM		
Alarns			Sync with pc time	
l cog	Node	Manual	•	
Variables	Timezone	(UTC+01.00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna	•	
🖌 Parameters	Server 1			
			Save	
O Cook				
Web interface				

#### 6.10 Web interface

Addressing within the commissioning of the custom pages WEB (see previous chapters).

