Carel Controller Configuration

Before installing your **SMRTCold** system, ensure your **Carel controller** is correctly configured. Incorrect settings can lead to setup failures or communication issues.

Setting Overview

The following parameters need to be configured on your Carel controller:

- BMS Network Address: 1
- BMS Configuration:
 - $\circ~$ Stop Bit: 1
 - Parity: None
- BMS Baudrate (bit/s): 19200
- BMS Protocol: Modbus

Walkthrough

Follow these steps using the **Carel Applica** app:

1. Install Carel Applica

Download and install the Carel Applica mobile application:

https://www.carel.com/apps

2. Connect to Your Controller

- Open the app and connect to your Carel controller using Bluetooth or NFC (depending on model).
- You may need to select the account/profile "Service"
- When prompted for a password input "22"

3. Access the Parameters

- Open the main menu.
- Navigate to the **Parameters** section.

4. Configure Connectivity Settings

From the top bar, select **Connectivity**.

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H0 BMS network a	ddress	1
H1 BMS config.(sto	op bit and parity)	0
H2 BMS baudrate	(bit/s)	19200
H3 BMS protocol		Modbus
H6 Enable 7-seg U	l keyboard	
H9 Output switche	d with time bands	
h Hour - Clock se	ttings by supervisor	12
In Type of unit		Main
M_ Month - Clock s	settings by supervisor	7
m Minutes - Clock	settings by supervisor	24
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5. Set Parameters

• BMS Network Address: 1

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In Type of unit Main					
M7					
m 24 Minutes - Clock settings by supervisor					
PDS '22'				'22'	

- Stop Bit: 1
- Parity: None

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ALOGUE		COND FAN	CONNECTIVITY	CONT	ROL (
HO BMS	network a	ddress			1
H1	H1	for (other bit a	and an arity A	2	0
BIVI	0 = stop b	bit 1, parity no	one		
H2 BM	H2 BM 1 = stop bit 2, parity none 2 = stop bit 1, parity even 3 = stop bit 2, parity even 200				200
H3 BM	05			0	bus
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Mon		settings by su	ipervisor		7
m24 Minutes - Clock settings by supervisor				24	
PDS				'22'	

• Baudrate: 19200 bit/s

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HO	H2 BMS baudr	ate (bit/s)		5	☆	1
H1 BM	0 = 1200 1 = 2400 2 = 4800 3 = 9600					0
H2 BM	07					200
НЗ	2400					bus
BM	4800					
H6 Ena	9600					D
H9	19200					
Out	38400					
h	57600					12
In	115200					ain
M	Can	cel	0	Ok		
Mor	th - Clock se	ttings by su	pervisor			7
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PD	S 					'22'

• Protocol: Modbus

Last update: 2025/08/07 07:53

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Ξ	Parameter list	ů:
Q	Enter parameter/description	7☆
ALOGUE	INPUTS COND FAN CONNECTIVIT	CONTROL (
H0 BMS	network address	1
H1 BMS	config.(stop bit and parity)	0
H2 BM	H3	±200
H3 BM	BMS protocol FALSE = Carel TRUE = Modbus	bus
H6 Ena	Carel	D
H9	Modbus	
Out	Cancel C	0k
h Hour	- Clock settings by supervisor	12
In Type	of unit	Main
M_ Mont	h - Clock settings by supervisor	7
m Minu	tes - Clock settings by supervisor	24
PDS	na minana and	'22'

Ensure each setting is confirmed after changing.

Completion

Once all settings are correctly applied, your Carel controller is ready for SMRTCold integration.

You may now proceed with the SMRTCold installation.

If you encounter any issues, verify that all communication settings exactly match the configuration above.

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Permanent link: https://docs.myfridgeonline.com/products/smrtcold/carel_controller_configuration_guide

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