ENGINEERING
TOMORROW

Danfoss

User Guide

CoolConfig
ICAD
Operating manual

Scanning and connecting

1 — Available devices
INITIATE SCAN

Danfoss Bluetooth devices

LLS 4000 is discoverable immediately after a power cycle. ICAD can be found whenever within range and Bluetooth enabled.

✳ Start scanning

Status   Alarms   Service   Info

2 — Available devices
SCANNING

◯ Searching for Danfoss Bluetooth devices

Status   Alarms   Service   Info

3 — ⟳ Available devices ☰
SCAN COMPLETE

Device 1 (ICAD) ✳ ◢ ›
SN 9800002892222
❌ Alarm
80 %   Identify
Auto

Name: Not config (ICAD) ✳ ◢ ›
SN 9800002892224 *(new)*
⚠ Warning
N/A   Identify
Config

Device 4 (LLS) ✳ ◢ ›
SF19000000000000070
✅ OK
Liquid
Relay open

Use 'Identify' to have an ICAD light up in blue and verify that this is the one you want to connect to.

Did the device you are looking for not show up? ⓘ

Status   Alarms   Service   Info

4 — ICAD will flash blue for 15 seconds when clicking the 'Identify' button. Utilize this when you are unsure which one to choose.

5 — ⟳ Available devices ☰
SCAN COMPLETE

Device 1 (ICAD) ✳ ◢ ›
SN 9800002892222
❌ Alarm
80 %   Identify
Auto

Name: Not config (ICAD) ✳ ◢ ›
SN 9800002892224 *(new)*
⚠ Warning
N/A   Identify
Config

Device 4 (LLS) ✳ ◢ ›
SF19000000000000070
✅ OK
Liquid
Relay open

Use 'Identify' to have an ICAD light up in blue and verify that this is the one you want to connect to.

Did the device you are looking for not show up? ⓘ

Status   Alarms   Service   Info

6 — ‹ 🔒 ICAD

Enter PIN to access **Device 1**

_0_ _0_ _0_ _0_

1	2 ABC	3 DEF
4 GHI	5 JKL	6 MNO
7 PQRS	8 TUV	9 WXYZ
		⌫

ⓘ **NOTE:**
The connection PIN is **0000** and serves to ensure that the connection is intentionally. Access is then read-only.

Entering home screen - content and navigation (in details)

Signal strength   ICAD name   Menu

⑦

Device 1
READ ONLY - LOG IN FOR SERVICE MODE

80 % open → Actual opening degree

Auto → Status: Manual/Auto/Calibration/Safe state

ALARMS   🔔 2   > → Currently active alarm count

Service interval overdue
10:09 - today
Check valve   >

A9 Preventive Operational Mode
10:21 - 1 day ago
Too high torque   >

I/O POINT	FUNCTION	STATUS
AI	Control	0,5 V
AO	Valve position output	0,1 mA
DO (A)	Alarm relay	ON

→ Input and output readouts (matches the current ICAD operation mode)

SERVICE OVERDUE   ✕
0 days

→ Service reminder status. When service is overdue, the valve is recommended to be serviced
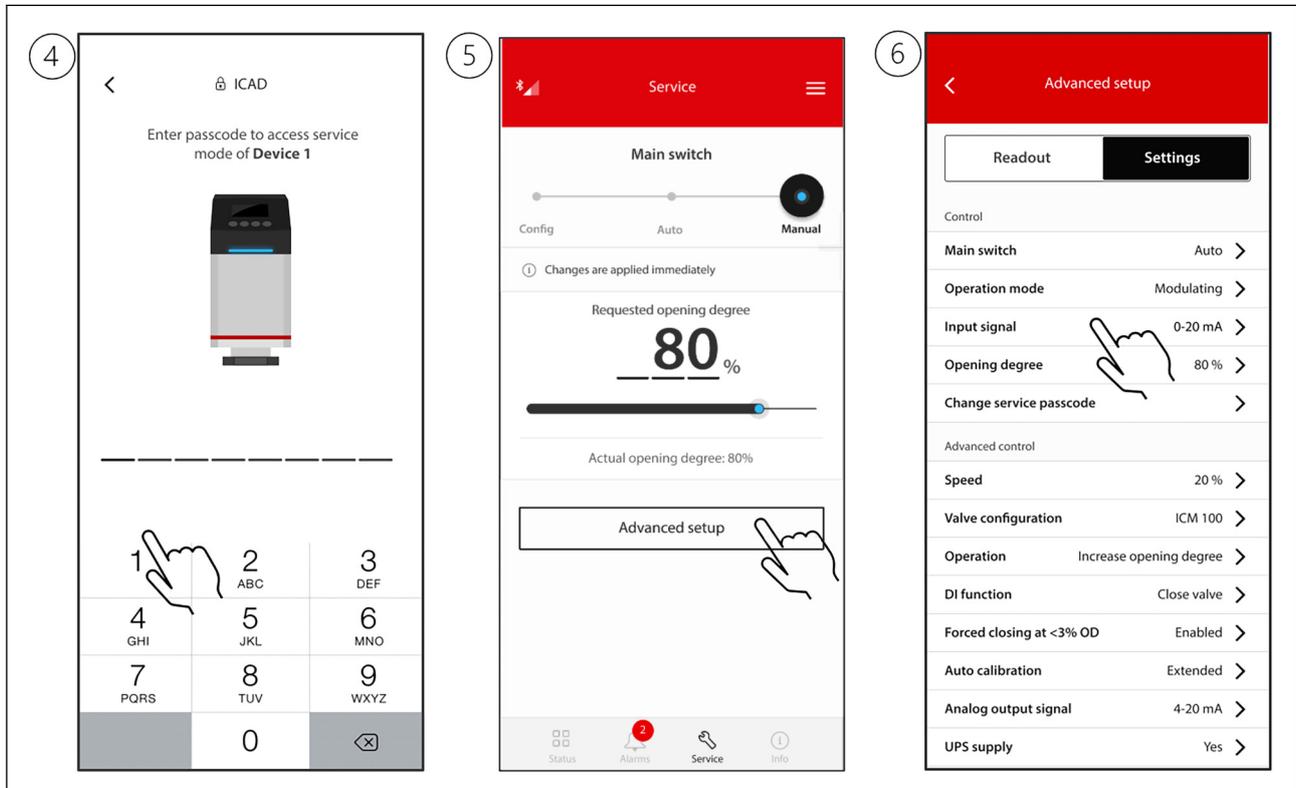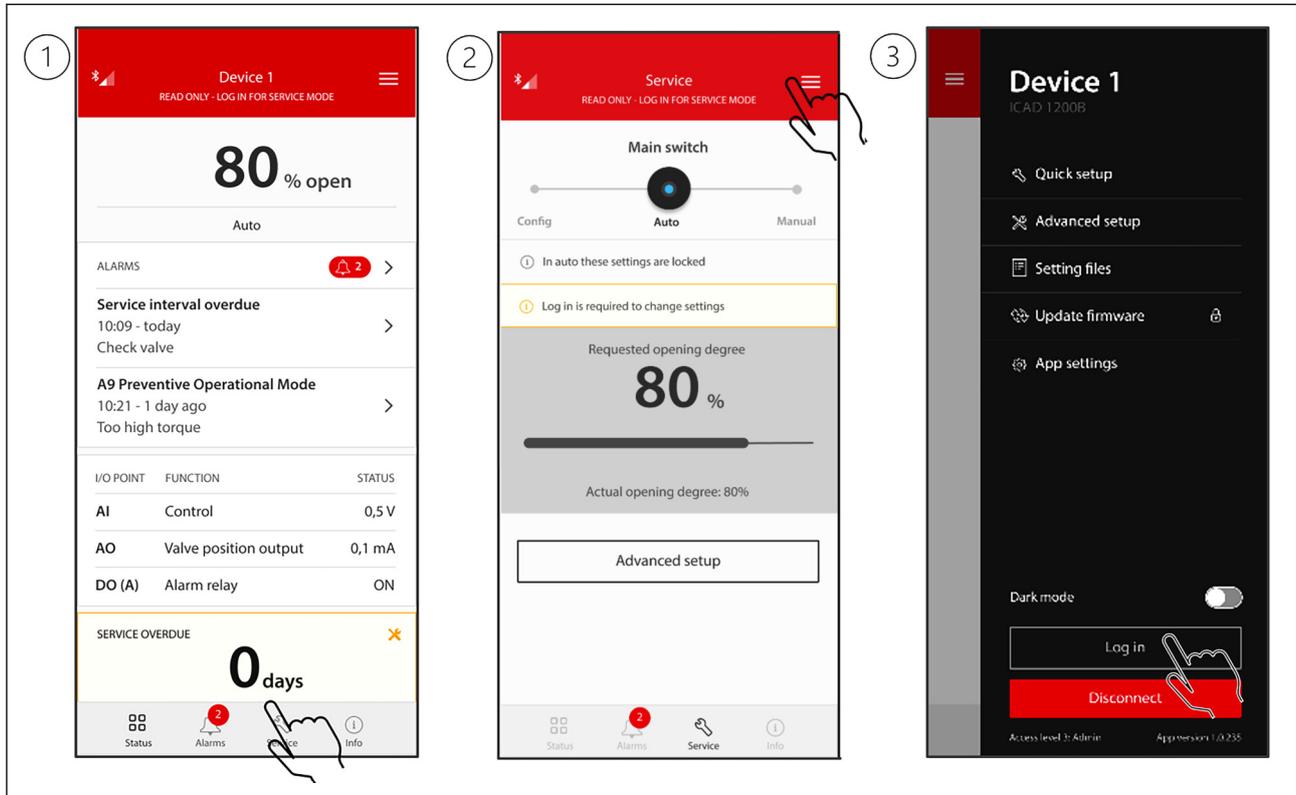
TYPE	SUPPLY	STATUS
⚡	24 V DC	21 V
🔋	UPS	OK

→ Actual power supply input

→ Health of Uninterruptable Power Supply if this has been enabled

🔲 Status   🔔 2 Alarms   🔧 Service   ⓘ Info
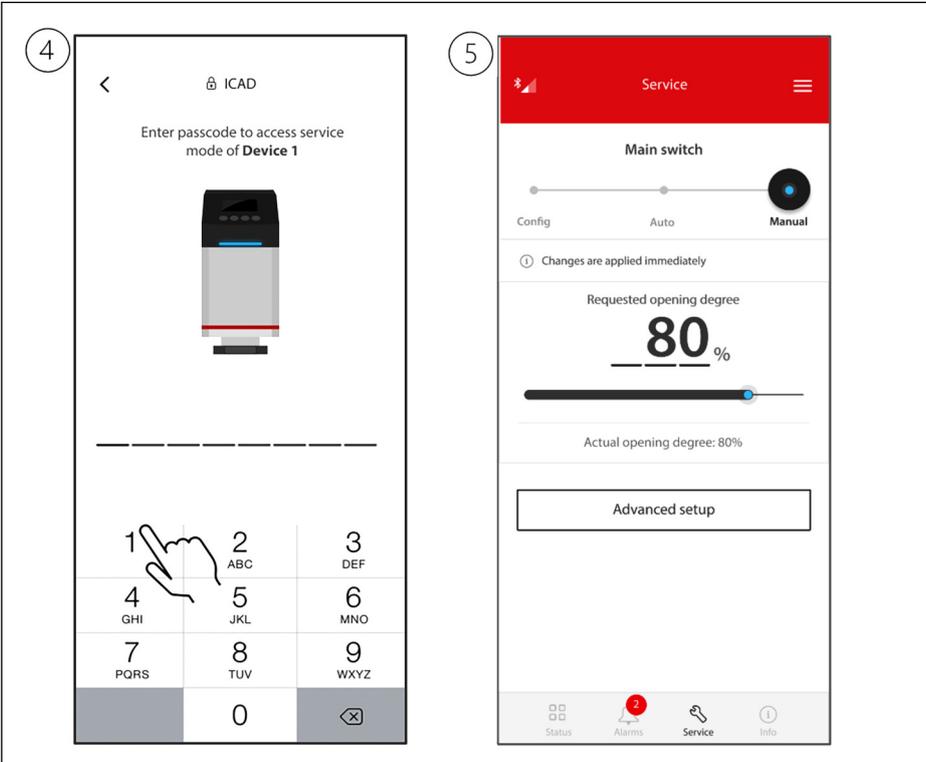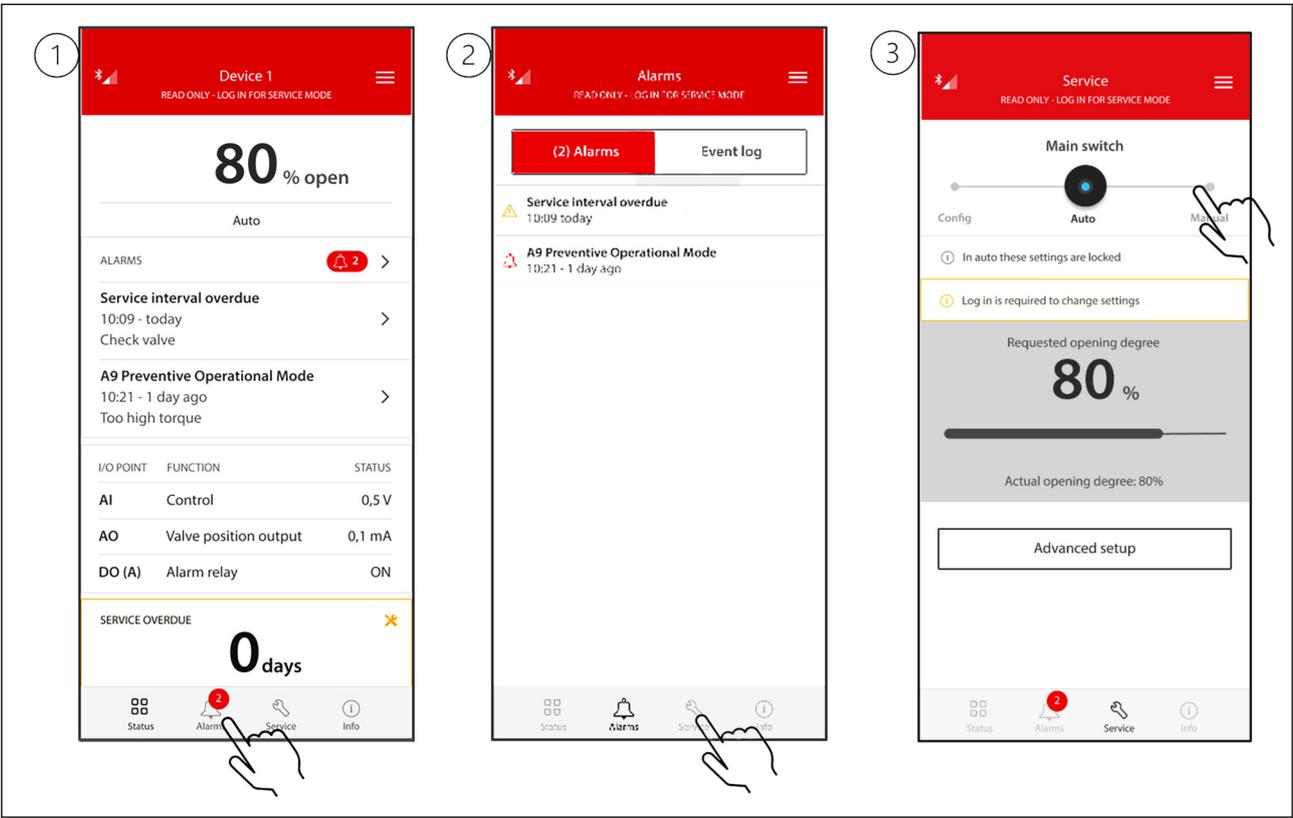
Navigation to menu groups

Login and configuration changes (when connected)

NOTE:

Passcode is **12131400** by factory default. This can have been changed during commissioning of ICAD. In case you forget a custom configured passcode, the only option is to factory reset ICAD.

⑦

Analog input signal

Current input: 0-20 mA	◉
Current input: 4-20 mA	○
Voltage input: 0-10 V	○
Voltage input: 2-10 V	○
Modbus	○

Type of AI signal from external controller. Only active when Operation mode (ID2) is set to Modulating. If the input signal received does not match this setting an Input signal out of bounds (A3) alarm will show.

Cancel

Apply

⑧

Analog input signal

Current input: 0-20 mA	○
Current input: 4-20 mA	○
Voltage input: 0-10 V	○
Voltage input: 2-10 V	◉
Modbus	○

Type of AI signal from external controller. Only active when Operation mode (ID2) is set to Modulating. If the input signal received does not match this setting an Input signal out of bounds (A3) alarm will show.

Cancel

Apply

See alarms and set a manual opening degree (when connected)

ⓘ NOTE:

Passcode is **12131400** by factory default. This can have been changed during commissioning of ICAD. In case you forget a custom configured passcode, the only option is to factory reset ICAD.
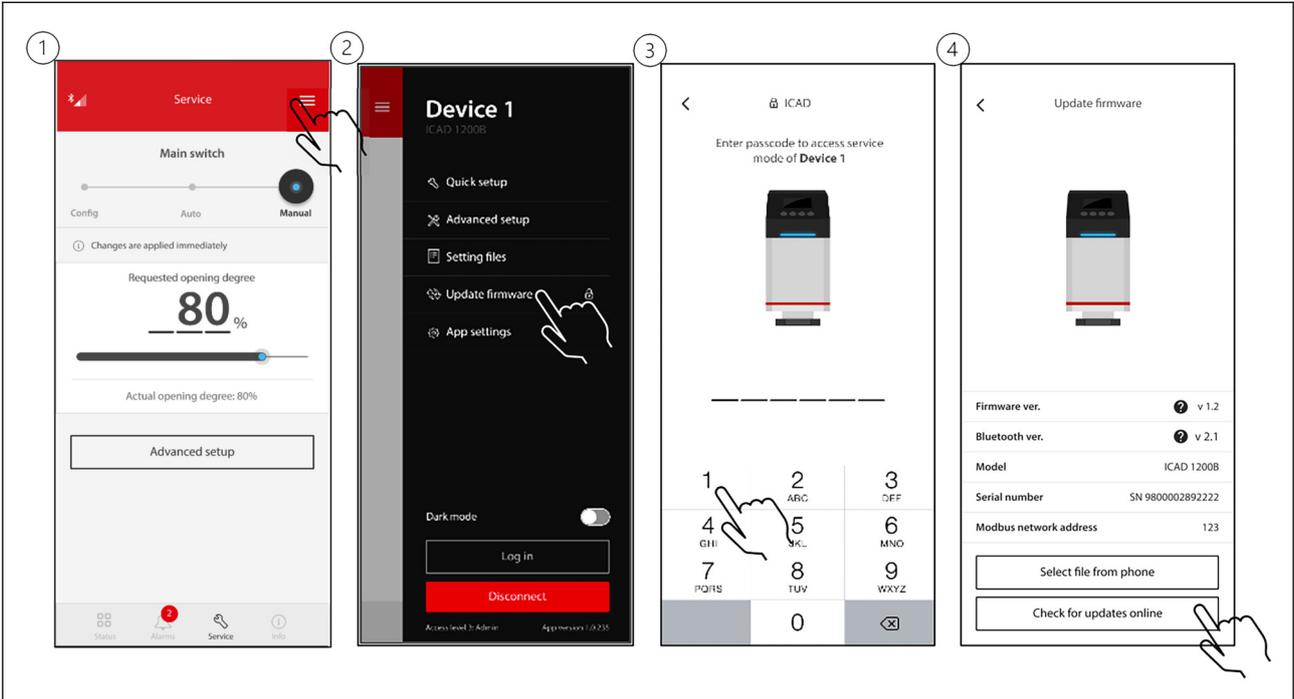
Firmware update (when connected)

ⓘ NOTE:
ICAD must be in manual mode to initiate firmware update.

Passcode is **12131400** by factory default. This can have been changed during commissioning of ICAD. In case you forget a custom configured passcode, the only option is to factory reset ICAD.

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‹   Update firmware

Firmware ver.	⚠ v 1.2
Model	ICAD 1200B

⚠ Ensure power is not interrupted during this process. and to stay within range of the ICAD.

After completing this action, it is recommended to inspect system operational status to confirm correct control and operation

Update

6

Update firmware
CONNECTION IS GOOD

0%

⚠ **Update in progress**
Ensure power is not interrupted during this process. and to stay within range of the ICAD.

After completing this action, it is recommended to inspect system operational status to confirm correct control and operation

7

Complete
UPDATE SUCCESSFUL

Firmware ver.	✓ v 1.2
Model	ICAD 1200B
Serial number	SN 9800002892222
Modbus network address	123

ⓘ ICAD automatically reboots now. This means you need to rescan and reconnect.
Remember to set ICAD main switch back to 'auto' if this was the previous setting.

Close

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