

Installation Guide

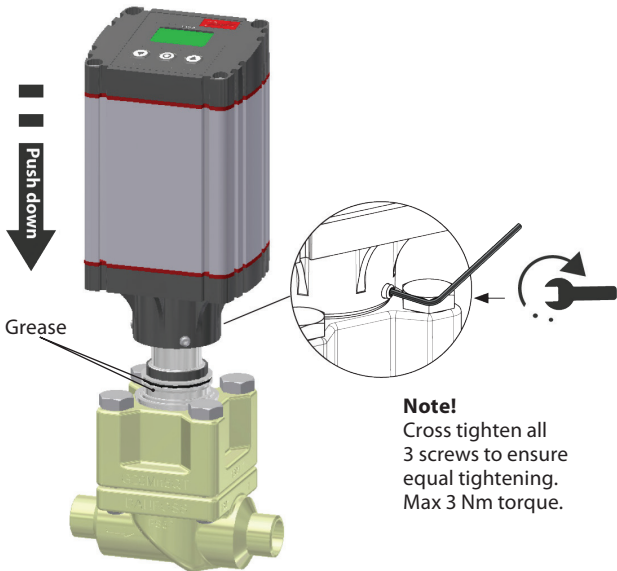
# ICAD 600A/ICAD 1200A

## Quick Start Guide

027R9801

027R9801

1



**Note!**  
Cross tighten all 3 screws to ensure equal tightening. Max 3 Nm torque.

3



Quick Start Guide

Before you start using ICAD:

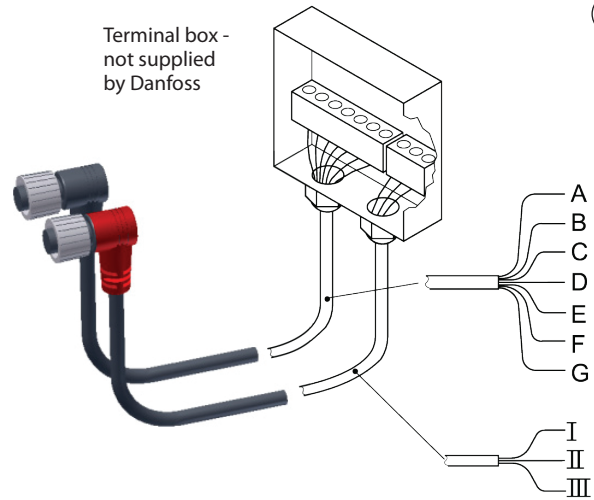


**24 Volt DC ONLY**



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Terminal box - not supplied by Danfoss



Ref.	Colour		Description
A	Black	-	Common Alarm
B	Brown	-	ICM fully open
C	Red	-	ICM fully closed
D	Orange	-	GND ground
E	Yellow	+	0/4 - 20 mA Input
F	Green	+	0/2 - 10 V input or digital input for on/off control
G	Blue	+	0/4 - 20 mA Output

I	Black	+	Fail safe supply Battery / UPS* 19 V DC
II	White	+	Supply voltage
III	Brown	-	24 V DC

\* Uninterruptable Power Supply



**24 Volt DC ONLY**

**Please observe cable voltage drop**

Distance between the applied DC transformer and the ICAD terminal box may cause a voltage drop. Cross section of cables and size of DC transformer must be calculated so that the voltage at all time **at the ICAD terminal box\***, both during standstill and during operation of ICAD, is within this range:

Prefabricated ICAD cable length Code number	1.5 m 027H0426	3 m 027H0438	10 m 027H0427	15 m 027H0435	
Voltage ICAD terminal (600A/1200A) [V DC]	Min.	21	22	23	24
	Max.	26.4			

\* Do not measure inside the ICAD itself

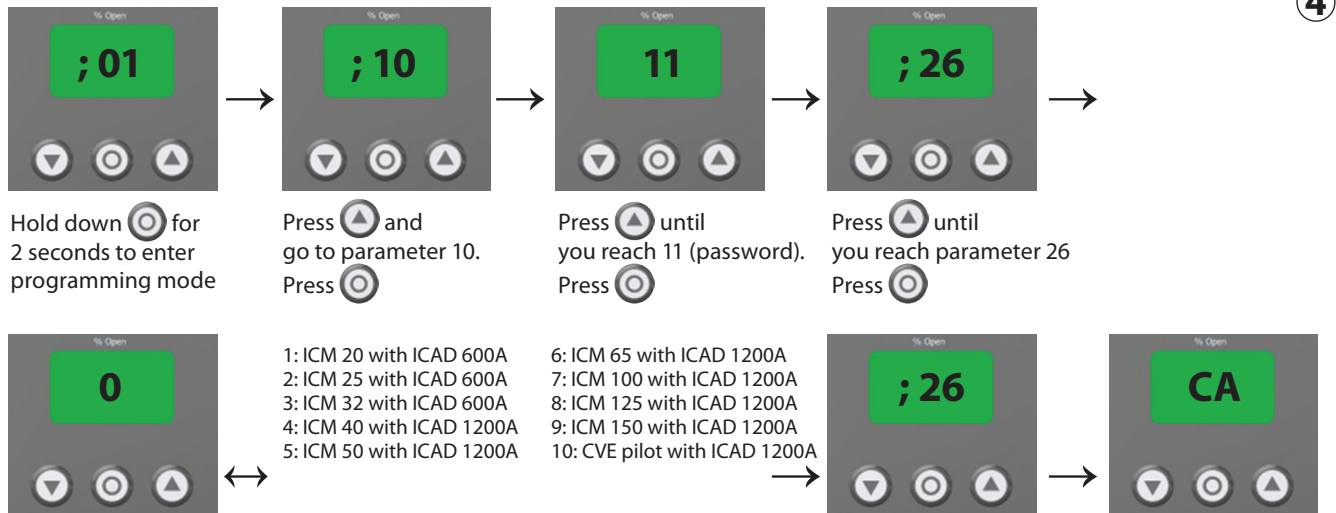
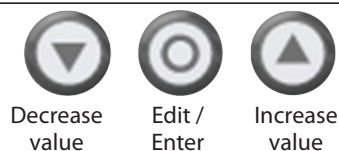
# Programming the ICAD

## Valve size setup (mandatory)

When powering up the ICAD, A1 will flash in the display

**Note:**

If the keypad is not operated within 20 seconds; time out will automatically exit programming mode.



Hold down for 2 seconds to enter programming mode

Press and go to parameter 10. Press

Press until you reach 11 (password). Press

Press until you reach parameter 26. Press

Press or to select ICM size or CVE. Press

- 1: ICM 20 with ICAD 600A
- 2: ICM 25 with ICAD 600A
- 3: ICM 32 with ICAD 600A
- 4: ICM 40 with ICAD 1200A
- 5: ICM 50 with ICAD 1200A
- 6: ICM 65 with ICAD 1200A
- 7: ICM 100 with ICAD 1200A
- 8: ICM 125 with ICAD 1200A
- 9: ICM 150 with ICAD 1200A
- 10: CVE pilot with ICAD 1200A

**Valve label ID:**

ICM 20	ICM 25-65	ICM 100-150

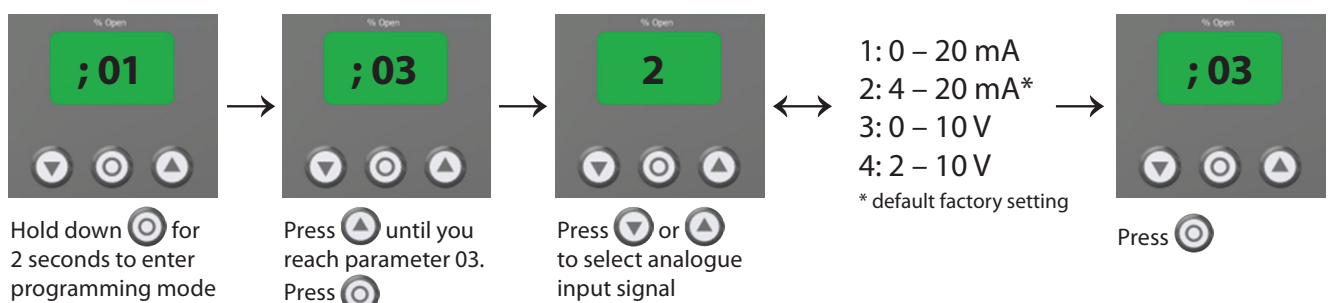
ICM/CVE & ICAD is now calibrating

Hold down for 2 seconds to exit programming mode

**NOTE!**

If media temperature is lower than -30 °C (-22 °F) it is mandatory to set parameter i30 an i31. See separate document attached in ICAD box: document number AN285243155312

## Changing analogue input signal (optional)



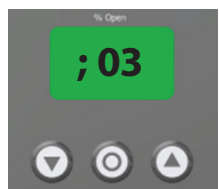
Hold down for 2 seconds to enter programming mode

Press until you reach parameter 03. Press

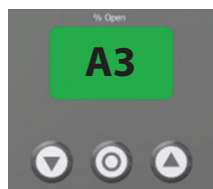
Press or to select analogue input signal

- 1: 0 – 20 mA
  - 2: 4 – 20 mA\*
  - 3: 0 – 10 V
  - 4: 2 – 10 V
- \* default factory setting

Press



Hold down for 2 seconds to exit programming mode



If A3 alarm occurs the analogue input signal is out of range

## Factory reset of ICAD

Disconnect power ①

Press down and simultaneously while reconnecting power ①

Release and

**Note:**

If factory reset has been performed the ICAD will start flashing A1 in the display.



For further functions, programming possibilities and factory settings; please see ICAD instruction.