

Installation Guide

# ICAD 600A/ICAD 1200A

## Quick Start Guide

027R9801

027R9801

**1**

Push down

Grease

**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**

**2**

Terminal box - not supplied by Danfoss

A  
B  
C  
D  
E  
F  
G  
  
I  
II  
III

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

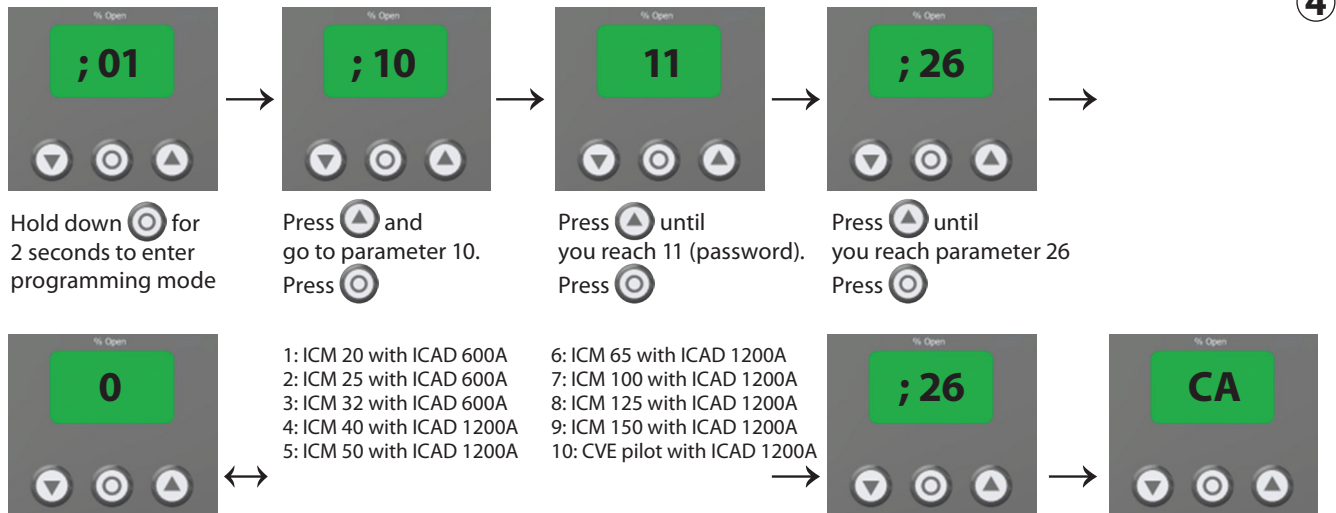
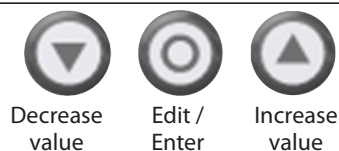
# Programming the ICAD

## 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.



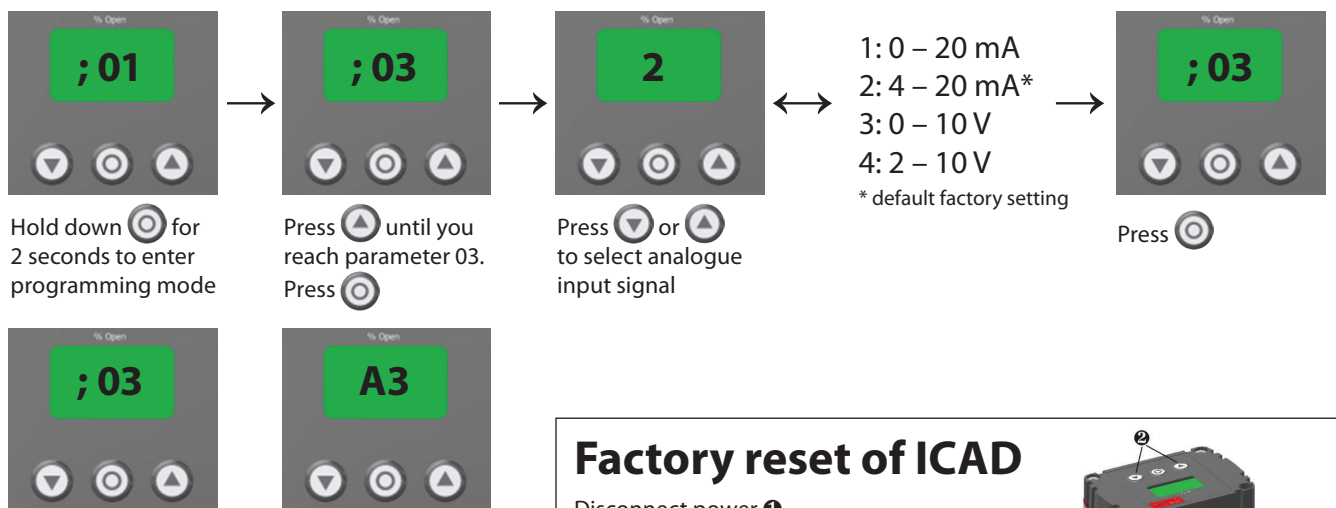
**Valve label ID:**

ICM 20	ICM 25-65	ICM 100-150

**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)



## 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.