

### Quick Start Guide ICAD 600A / ICAD 1200A



Before you start using ICAD:



**24 Volt d.c.  
ONLY**

# 1

Push down

Oil

Tighten CW

# 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	+	0/2-10V input or digital input for on/off control
G	Blue	+	0/4 - 20 mA Output

Digital Output

# 3

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

\* Uninterruptable Power Supply



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**Please observe cable voltage drop**  
Distance between the applied d.c. transformer and the ICAD terminal box may cause a voltage drop. Cross section of cables and size of d.c. 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			
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
Voltage ICAD terminal (600A/1200A) [V d.c.]	21	26.4	22	26.4	23	26.4	24	26.4	24	26.4	24	26.4	24	26.4		

\* Do not measure inside the ICAD itself.

# Programming the ICAD

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

## Valve size setup (mandatory)

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

# 4

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.

## Changing analogue input signal (optional)

# 5

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

- 1 Disconnect power
- 2 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.



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