



Danfoss ICAD 600A Control Valve Actuator User Guide

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Quick Start Guide
Before you start using ICAD:

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ICAD 600A Control Valve Actuator

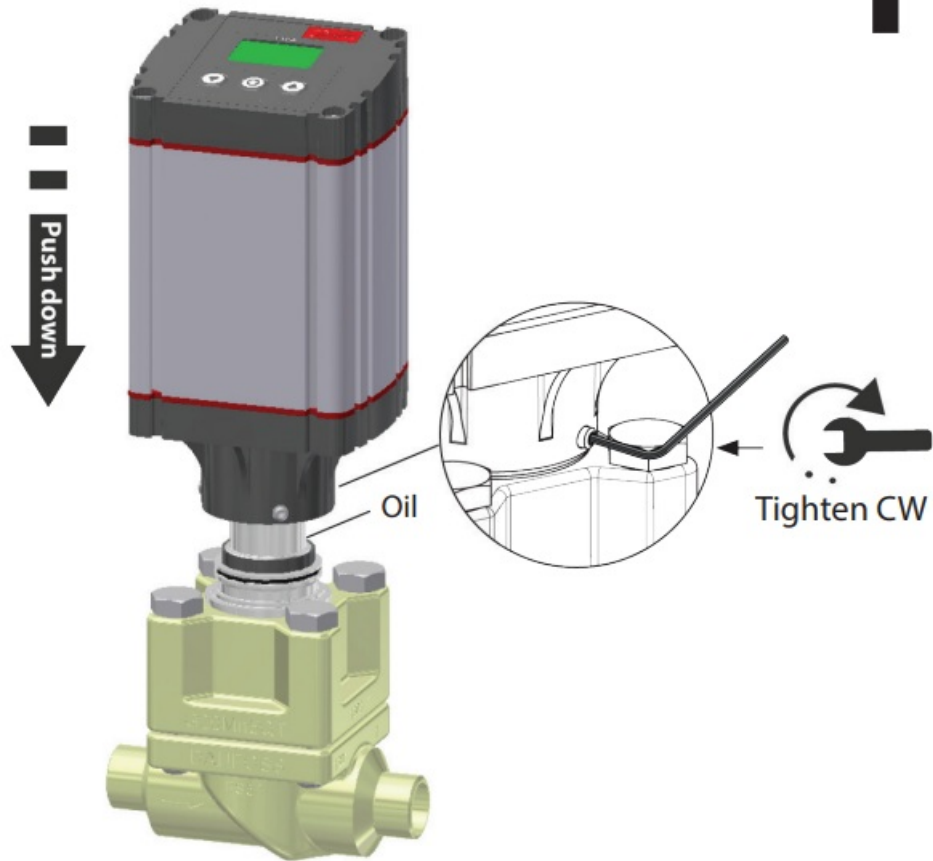


**Quick Start Guide
ICAD 600A / ICAD 1200A**

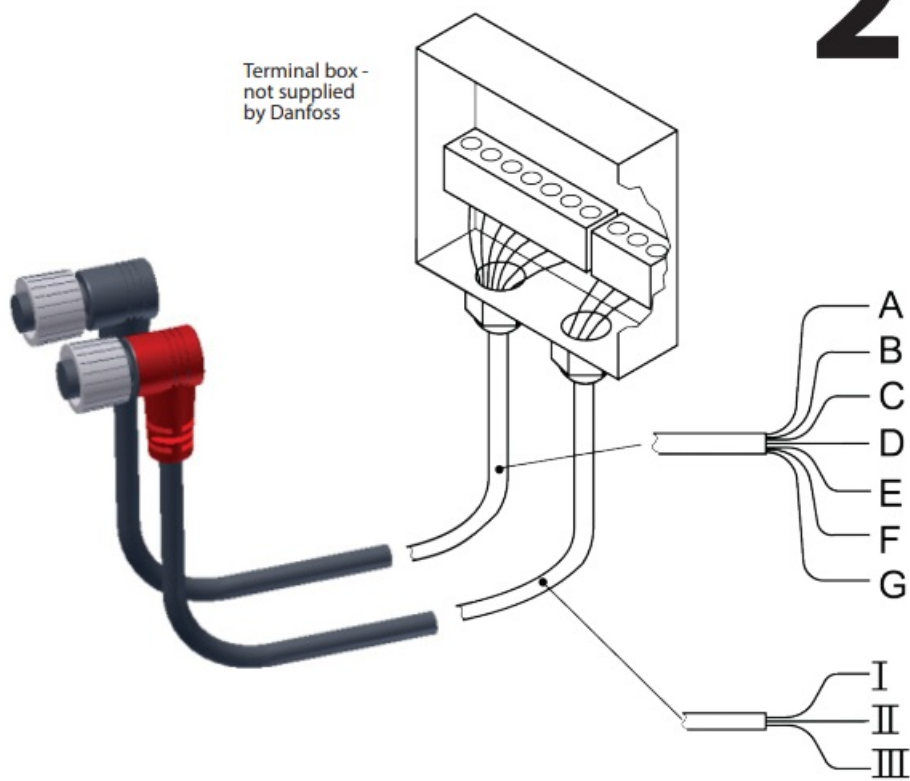


24 Volt d.c. ONLY

1



2



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

Digital Output

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

* Uninterruptable Power Supply

Please observe cable voltage drop



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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	1.5 m	3 m	10 m	15 m
Code number	027H0426	027H0438	027H0427	027H0435
Voltage ICAD terminal Min.	21	22	23	24
(600A/1200A) [V d.c.] Max.	26.			

* Do not measure inside the ICAD itself.

3



**Decrease
value**



**Edit /
Enter**



**Increase
value**

Note:

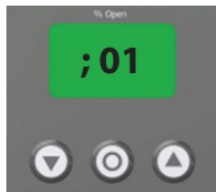
If the keypad is not operated within 20 seconds; time out will automatically exit programming mode.

Programming the ICAD

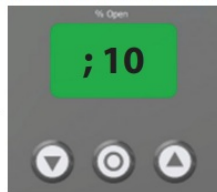
Valve size setup (mandatory)

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

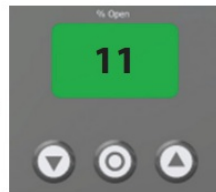
4



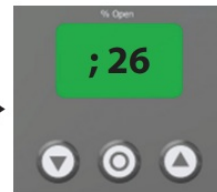
Hold down for 2 seconds to enter programming mode.



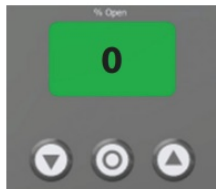
Press and go to parameter 10. Press



Press until you reach 11 (password). Press



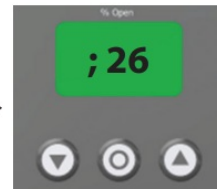
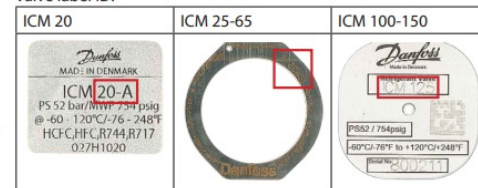
Press until you reach parameter 26. Press



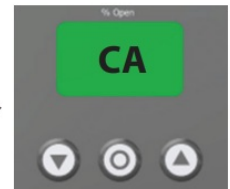
Press or to select ICM size or CVE. Press

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:



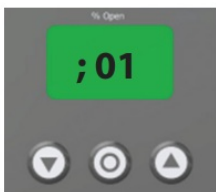
ICM/CVE & ICAD is now calibrating.



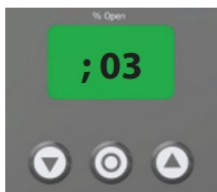
Hold down for 2 seconds to exit programming mode.

Changing analogue input signal (optional)

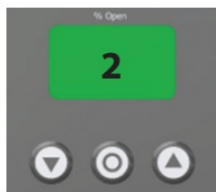
5



Hold down for 2 seconds to enter programming mode.

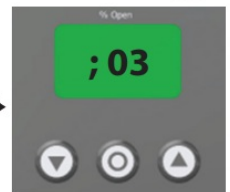


Press until you reach parameter 03. Press

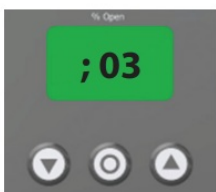


Press or to select analogue input signal.

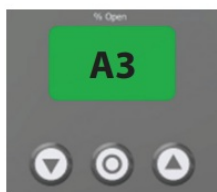
1: 0-20 mA
2: 4-20 mA*
3: 0-10 V
4: 2-10 V
* default factory setting



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

Disconnect power ①

Press down and ② simultaneously while reconnecting power ①

Release and ②

Note:

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



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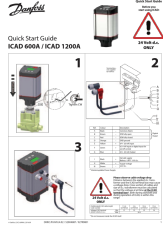
For further functions, programming possibilities and factory settings; please see ICAD instruction.



DKRCI.PI.HV0.J4.02 / 520H4887 / 027R9801

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Documents / Resources

	Danfoss ICAD 600A Control Valve Actuator [pdf] User Guide 600A, 1200A, ICAD 600A, ICAD 600A Control Valve Actuator, Control Valve Actuator, Valve Actuator, Actuator
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