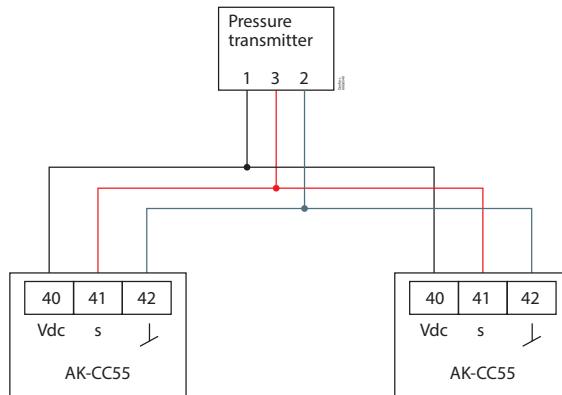


Operating Guide

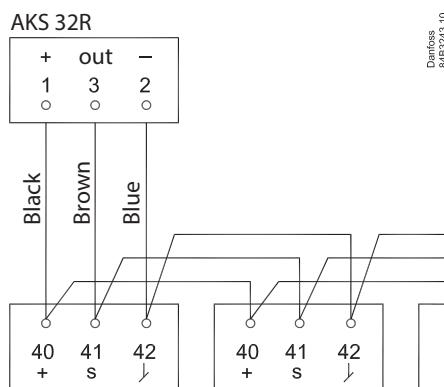
Is it possible to share the same ratiometric pressure transmitter with more than one Danfoss controller?

More than one AK-CC55 (Yes, it is possible)



The signal from one pressure transmitter can be shared by up to 10 controllers. More details in the User Guide of the AK-CC55:

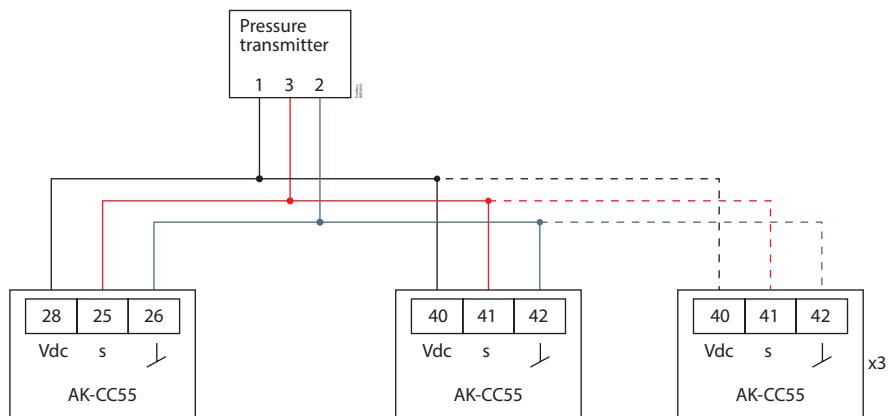
AKS 32R info



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The signal from one pressure transmitter can be received by up to 10 controllers.
There must not be a significant pressure drop from the pressure transmitter's position in the suction line to the individual evaporators.

One AK-CC 750A and AK-CC55 (Possible, but not recommended)

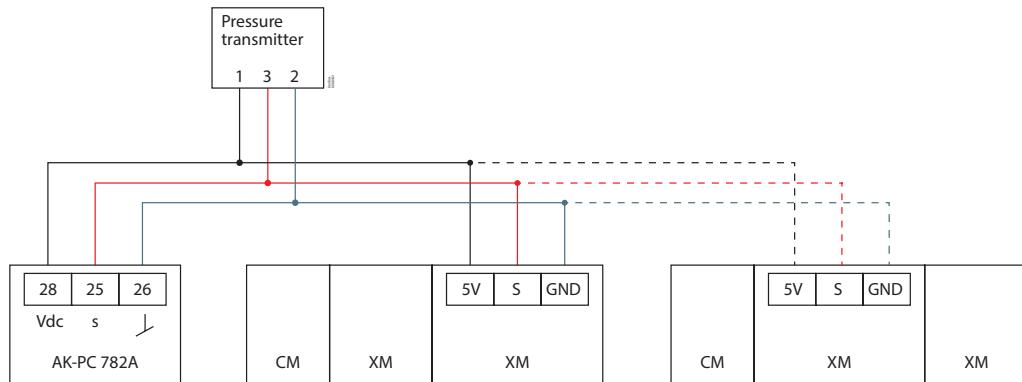


The signal from one pressure transmitter can be received from up to 5 controllers.
For example: 1x AK-CC 750A and 4x AK-CC55.

Limitation: Electrically it's possible to share the pressure transmitter, and the signal is displayed correctly, but this is not recommended by Danfoss. In case an AK-CC750A unit is disconnected or loses supply voltage, this unit will affect the pressure signal.
The signal from the pressure sensor may change only slightly, so the system still sees the signal as valid.

AK2 platform controllers with AK-XM extension modules

(Possible, but not recommended)



If all controllers have **separated power supply**, it is possible to connect more than one controller to one pressure transmitter.

Limitation: Electrically it's possible to share the pressure transmitter, and the signal is displayed correctly. Up to 10 AK2 units can share the signal from a pressure transmitter, but this is not recommended by Danfoss. In case an AK2 unit is disconnected or loses supply voltage, this unit will affect the pressure signal.

The signal from the pressure sensor may change only slightly, so the system still sees the signal as valid.

If third party controllers are involved, then Danfoss is not responsible for the installation of the pressure transmitters sharing.

MCX controllers (Not recommended)

No, MCX controllers are not designed to share sensors with a physical connection. The recommendation is to use the CANBus to share the sensor data reading with other controllers.

AK2 platform controllers with different platforms (AK2 x MCX or AK2 x Alsmart or Alsmart x MCX) (Not recommended)

No, AK2 platform controllers are not designed to share sensors with physical connection with devices based on other platforms.

Appendix

For more informations on pressure transmitters sharing, check other documents:
Title: Transmitter fault detection for AK-XM 101A, AK-XM 205A, AK-XM 205B
Document ID: [R18HZ552](#)

Title: Transmitter fault detection for AK..., ECL..., ECA...
Document ID: [R18HZ452](#)

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