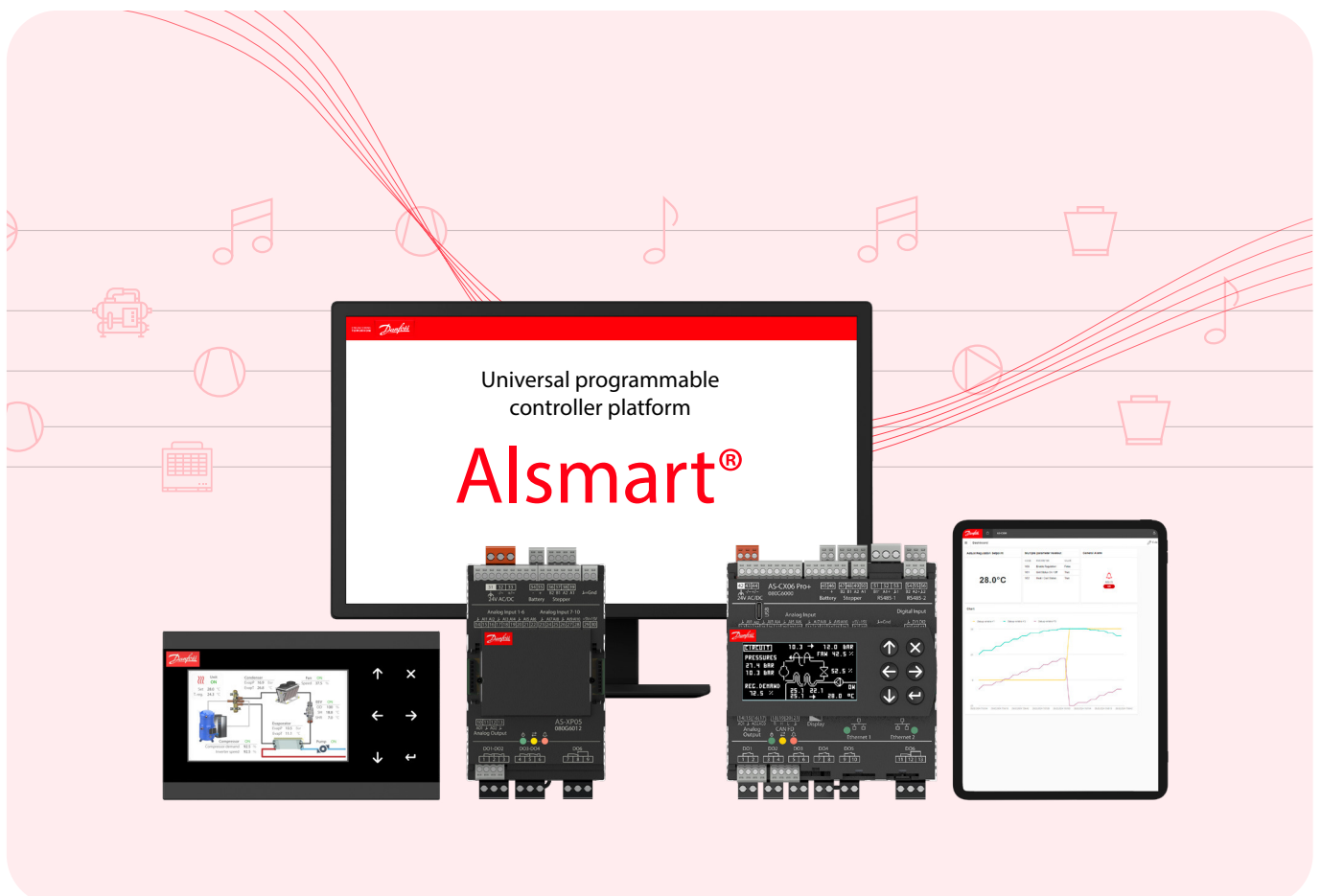


Master your HVAC symphony with Alsmart®

Alsmart® is the latest generation of programmable controller platforms for the HVAC market. The cyber-secure, intelligent, compact and powerful brain of your application.

Packed with state-of-the-art technology, Alsmart® empowers you to take your thermodynamic knowledge to the next level – reducing time to market with module-based design and software functionality simulations.



Alsmart® universal programmable controller

Elevate your HVAC solution with flexibility

Alsmart® offers a complete and intuitive software platform that helps you take your HVAC application to the next level thanks to the programming tools Alsmart® Design and Alsmart® Service Tool.



Flexible I/O

- Modular concept (connect up to 20 expansions)
- Auto-recognition function
- Universal I/Os
- Electronic valve driver embedded (+ versions)



Higher execution speed and memory

- Enhanced CPU memory
- Scalable RAM and ROM
- Faster compilation time – faster cycle time
- High precision I/Os with 14 Bit AD converter



HVAC applications

- Library of HVAC/R functions
- Library of standard & customizable applications
- Application Development Center (ADC) testing and validation
- Natural and low GWP refrigerants ready
- ChatBot assistant (in preparation)



Connectivity solutions for every need

- 2 Ethernet ports
- USB-C
- BACnet MS/TP and BACnet/IP
- 2 opto-isolated Modbus RS485
- CANbus FD
- MQTTS cloud (in preparation)
- Redfish protocol (in preparation)



Cyber-secure and reliable

- IEC 62443-4-1 ML2 TÜV certified
- IEC 62443-4-1 ML3 (target for Alsmart)
- IEC 62443-4-2 SL-T2 (ongoing)
- FailSafe feature Ethernet bridge
- Isolated power supply
- High precision AI with 14 Bit AD converter



Wide selection of User interfaces

- Remote display
- Snap-on display with copy and paste function
- LCD option
- Touch screen option



Complete software toolchain

- Alsmart® Design for programming and debugging
- EC 61131-3 IDE (main logic)
- Alsmart® Service Tool for commissioning and monitoring
- Model Based Design programming ready

Find your Alsmart® bundle: Top matches at a glance

Turn I/O requirements into the right Alsmart bundle in minutes:

- Specify application I/Os and interfaces.
- The configurator checks coverage and calculates matching models and packages.
- Get your optimized configuration with part codes and download the full PDF summary to finalize using the table below.



Scan or click the QR code to go to the configurator

Type	Code no.	Description
Main controller	080G6000	AS CX-06 Pro+, 2xRS485, 2xETH,EEV, Single pack
	080G6001	AS CX-06 Pro+, 2xRS485, 2xETH, EEV, Industrial Pack 27pcs
	080G6002	AS CX-06 Pro, 2xRS485, 2xETH, Single pack
	080G6003	AS CX-06 Pro, 2xRS485, 2xETH, Industrial Pack 27pcs
	080G6038	AS CX-06 Mid+ SSR, 2xRS485, EEV, Single pack
	080G6039	AS CX-06 Mid+ SSR, 2xRS485, EEV, Industrial Pack 27pcs
	080G6004	AS CX-06 Mid+, 2xRS485, EEV, Single pack
	080G6005	AS CX-06 Mid+, 2xRS485, EEV, Industrial Pack 27pcs
	080G6040	AS CX-06 Mid SSR, 2xRS485, Single pack
	080G6041	AS CX-06 Mid SSR, 2xRS485, Industrial Pack 27pcs
	080G6006	AS CX-06 Mid, 2xRS485, Single pack
	080G6007	AS CX-06 Mid, 2xRS485, Industrial Pack 27pcs
	080G6008	AS CX-06 Lite, 2xRS485, Single pack
	080G6009	AS CX-06 Lite, 1xRS485, Industrial Pack 27pcs
Expansion module	080G6000	AS CX-06 Pro+, 2xRS485, 2xETH,EEV, Single pack
	080G6014	AS-XP05, Single pack
	080G6015*	AS-XP05, Industrial Pack 36pcs
	080G6012	AS-XP05+, EEV, Single pack
	080G6013*	AS-XP05+, EEV, Industrial Pack 36pcs
	080G6010	AS-XP10, Single pack
	080G6011*	AS-XP10, Industrial Pack 27pcs
Power module	080G6019	AS-PS20, Single pack
	080G6020*	AS-PS20, Industrial Pack 36pcs
Snap-on display	080G6016	AS-UI snap-on, Single pack
	080G6017*	AS-UI snap-on, Industrial Pack 27pcs
	080G6018	AS-UI Cover (2pcs)
AS-UI04 remote display	080G6042	AS-UI04 Panel Mounted Single Pack
	080G6044	AS-UI04 Wall Mounted Single Pack
Connectors	080G6030	Connectors Kit AS CX-06 Pro+/Mid+, Industrial Pack 27pcs
	080G6031	Connectors Kit AS CX-06 Pro/Mid, Industrial Pack 27pcs
	080G6032	Connectors Kit AS CX-06 Lite, Industrial Pack 27pcs
	080G6033	Connectors Kit AS-XP10, Industrial Pack 27pcs
	080G6034	Connectors Kit AS-XP05, Industrial Pack 36pcs
	080G6035	Connectors Kit AS-XP05+, Industrial Pack 36pcs
	080G6037	Connectors Kit AS-PS20, Industrial Pack 36pcs
	080G6028	AS-Side Connector, Single pack
Side connectors	080G6029	AS-DIN Side Connector, Single pack
Dongle	080G6036	AS-Key Dongle

* Currently unreleased

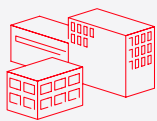
More about Alsmart®



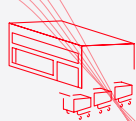
Visit alsmart.danfoss.com to learn more about Alsmart® and the supporting software toolchain.

A world of possibilities

With Alsmart®, you can configure your controller to manage virtually any application. To make configuration easier, we are growing a library of pre-programmed blocks and software applications specifically designed for HVAC systems, providing a quick and efficient way to get started.



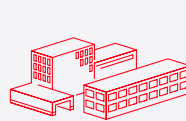
Residential buildings



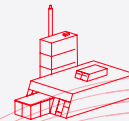
Supermarkets



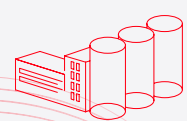
Data centers



Commercial buildings



District heating



BESS

Join the Alsmart® community

Explore a world of knowledge, support, and tools designed to help you get the most out of your Alsmart® applications. Discover how our community brings together everything you need in one place.

[Access the Alsmart® community](#) and unlock:

- A dedicated forum where you can ask questions and engage with experts
- Tutorial videos that guide you step-by-step through key features
- Datasheets and technical documentation for deeper insights
- Alsmart® Design - download the latest version of the Alsmart® Design Software

On-demand Alsmart® training

Danfoss provides online and face to face Alsmart® trainings. We offer standard courses and customized trainings, which are subject to a fee. Sign-up for your in-depth Alsmart® training [via this form](#).