



EMERSON™

XWi70K controllers for variable speed compressors

New functions in 24.5 version

PN 04/21 May



Dear Customer,

Emerson is pleased to announce the new version of the XWi70K family that features improved regulation algorithm for variable speed compressors and increases also its compatibility. The serial communication protocol with this type of compressors is a great controlling and monitoring tool of real compressor working conditions.

All information concerning the application functioning, from temperatures and functioning status, to compressor alarms, are available via ModBUS for better plant management and maintenance.

1. New functions

The 24.5 version introduces important functions that increase compatibility with Embraco variable speed compressors and improve the regulation of VSC already compatible.

1.1 Compatibility with VSC Embraco

The new version allows the control of Embraco variable speed compressors (VSC) – FMFT models – using serial communication protocol. It is possible to connect up to 2 VSC compressors through a dedicated cable. When 2 VSC compressors are connected, the regulation is always “in parallel” mode; this means that the same speed will be sent to both compressors.

1.2 Working status of the VSC compressor available via ModBUS

Serial communication with VSC compressors allows monitoring of the real working status of the VSC compressor. All information that comes from the VSC compressor becomes available via ModBUS.

1.3 Regulation update

The regulation algorithm of VSC speed has been improved introducing a special management for some uses (for example, defrost, energy saving start/stop, alarm recovery) with the aim of obtaining a more stable regulation temperature and reduce application consumptions.

2. New codification

Below is the list of new codes that replace the current ones:

PRODUCT CODE	CURRENT CODE v.21.4	NEW CODE v. 24.5
XWi70K-5NAI02	WOPADAC5K0	WOPADAC5K1
XWi70K-5N2D10	WOPBCAA500	WOPBCAA510
XWi70K-5NAI22	WOPDDAC5KA	WOPDDAC5KB
XWi70K-5NAI48	WOPGDAI5K0; WOPGDAI5KA	WOPGDAI5K1; WOPGDAI5KB
XWi70K-5NAG41	WOPGGAB5K0	WOPGGAB5K1

3. Pricing

Please contact our sales department for product pricing and further information.

4. Availability and orders

The XWi70K series 24.5 version is now available.

Previous versions to 24.5 continue to be available until the 30th of October 2021, but they will not be supported. After this date, codes of the previous versions indicated in the table above will be automatically replaced with new codes.

Please contact our sales department for delivery time information.