

User Guide

KoolKey

Principle

KoolKey is an interface and programming device to:

- Connect EET Controller with PC and act as a gateway when working online using KoolProg® application on the PC.
- Act as programming key to program settings into EET controllers in the production and the field.

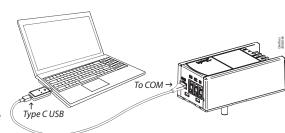


KoolKey as a Gateway

Gateway mode enables to work online with the connected controller through KoolProg® on a PC.

KoolProg® allows following functions:

- Set Parameters Create, view and edit controller settings.
- Copy to Controller Program settings file created offline to connected controller.
- Online service Monitor real time operations of the controllers and make adjustments to the settings while connected.



Connection:

- Connect the KoolKey to USB port of PC installed with KoolProg® software
- Connect the controller to KoolKey using KoolKey cable

(Refer KoolProg[®] <u>User Guide</u> for detailed instructions on how to use KoolProg. Download KoolProg[®] at: <u>koolprog.danfoss.com</u>)

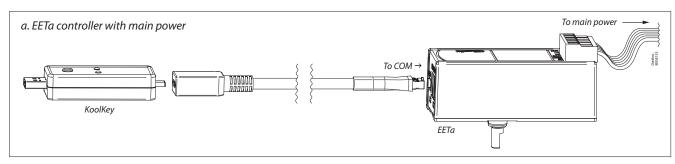
KoolProg® as Programming Key

Programming key function is used for transferring parameter files from key to controller and vice versa.

Programming a powered-up controller:

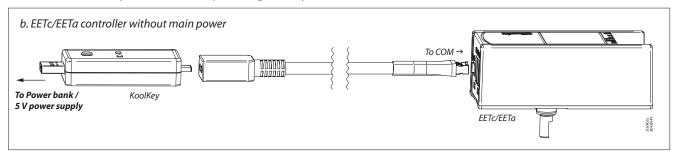
- Power up the controller using 120 V / 230 V power supply
- Connect the koolKey to controller TTL port using KoolKey cable

Note: EET compact (EETc) does not support this option.



Programming an unpowered controller:

- Connect Power bank or 5 V power supply to KoolKey USB type A port.
- Connect the Koolkey to controller TTL port using KoolKey cable.





Parameter file transfer steps:

Step	Action	Illustration	LED info
1.	Power up KoolKey by either connecting to an external power bank or to a powered up controller.	2. Green 1. Red	The LED will flash red indicating KoolKey is powered up. After few seconds LED would turn green indicating successful connection and data transfer readiness
2.	Write funtion: Short press the button (1 sec) to transfer data from the KoolKey to the controller. Note: When KoolKey is connected to power bank, the write functions gets initiated automatically as soon as the Koolkey is connected to controller without pressing the button.	Green Data	Green LED flashes – ¶ Indicating parameter file upload
	 b. Read Function: Long press the button (3 sec) to transfer data from the controller to the KoolKey. Note: Read function is not supported when KoolKey is powered up from a power bank. Make sure that an xml file with the same name is already saved in KoolKey before executing the read function. 	Green Data	Green LED flashes - Indicating parameter file download
3.	Successful file transfers (This could take around 5 – 8 sec for read and write functions to successfully complete.	Green	Constant green
	Unsuccessful file transfer (Check connection and compatible programing file).	Red	Red flashes

Note: Do not leave the cable hanging when connected to a live controller.