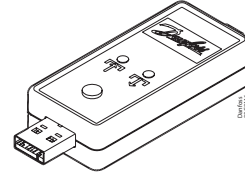**User Guide**

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.
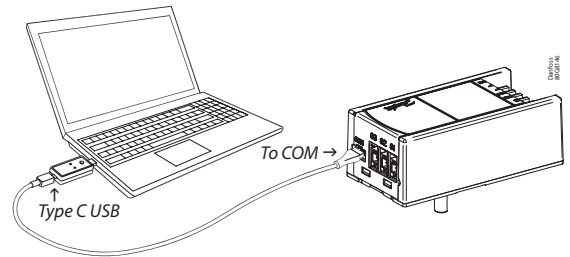
KoolKey as a Gateway

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® User Guide for detailed instructions on how to use KoolProg. Download KoolProg® at: koolprog.danfoss.com)

To COM →

↑
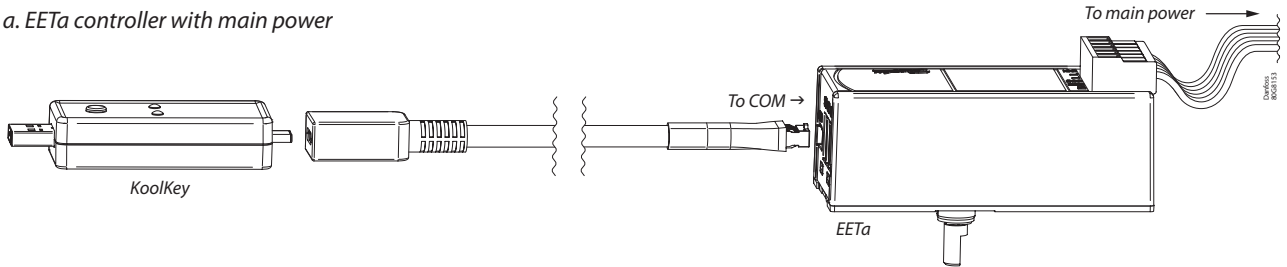*Type C USB*

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

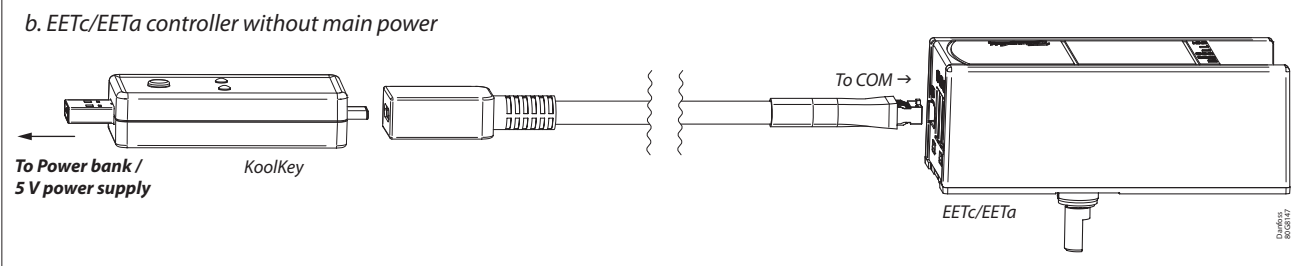**Note:** EET compact (EETc) does not support this option.

a. EETa controller with main power

To main power →

To COM →

KoolKey

EETa

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.

b. EETc/EETa controller without main power

To COM →

**To Power bank /
5 V power supply**

KoolKey

EETc/EETa

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.		• 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.	a. 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 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 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.		Constant green
	Unsuccessful file transfer (Check connection and compatible programing file).		Red flashes

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

ADAP-KOOL®