

Information on the Liebherr HomeDialog System

Liebherr HomeDialog System



What is the HomeDialog system?

Liebherr's HomeDialog system, as it has been known until present, has allowed e.g. a NoFrost freezer with Premium control system situated in the basement to be controlled using the electronic display in the door of a combined fridge-freezer. Now, starting 2008, the new, extended HomeDialog system will enable not only networking a freezer, as in the past, but up to 6 additional, external Liebherr appliances. The appliances are indicated in the display of the combined fridge-freezer with a PremiumPlus electronic control system, permitting their convenient control. Among the Liebherr appliances capable of being networked are wine cabinets, freezers, refrigerators and combined fridge-refrigerators.

What advantages does the HomeDialog system offers customers?

All the functions of the appliances can be accessed and conveniently set on the display, e.g.:

- temperature setting
- SuperFrost mode ON/OFF
- DuraFreeze mode ON/OFF
- alarm acknowledgement

Furthermore, the HomeDialog system allows the functions of say the freezer to be constantly monitored:



- Temperature display: Indicates that the freezer is operating normally, i.e. failure-free and so the food is stored safe and sound inside.
- Door alarm: Especially useful should children fetch an iced-lolly and forget to close the freezer door properly.
- Power failure: Should there be power failure in the basement, this is displayed on the refrigerator in the kitchen.
- Temperature alarm: Is also displayed on the appliance, e.g. in the kitchen.

How does the HomeDialog system work?



This system always needs at least two appliances: a refrigerator with the display in the door and another Liebherr appliance with HomeDialog capability.

The refrigerator in the kitchen is the master appliance because it can be used to control as many as six other appliances, these being the slave appliances.

To enable master and slave to communicate, one HBM PLC home bus module per appliance is needed. There are two kinds of module: a master module being needed for the refrigerator

with electronic display in the door and a slave module for the other appliances.

The data (control commands, current temperature data, door alarm etc.) are transmitted using the power line. That is to say, no complicated cable routing is required. The data packages are modulated onto the power supply line. To enable the appliances to communicate with one another, they have to be connected to the same power supply line.

How is the HomeDialog system installed?

Installation involves just two steps, taking about 5 to 10 minutes in all:

- First the home bus modules are inserted into the slots provided for the purpose at the back of the appliances (the master module is inserted into the refrigerator, the slave module into the other appliances).
- Then a setup has to be carried out for the appliances to perform a handshake.

Detailed installation instructions accompany the home bus modules.

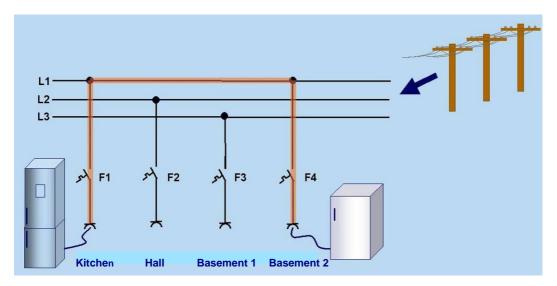
What points must be noted when installing the HomeDialog system?

What is important is that the appliances are connected to the same power supply line (= to the same phase). To explain: the power supply utilities always use three phases (L1, L2, L3) for domestic power supply.

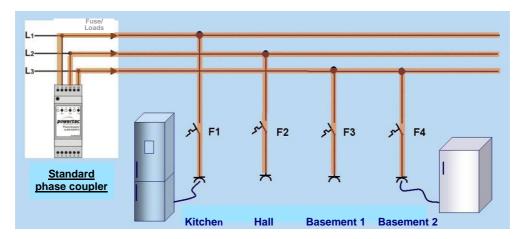




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If the setup cannot be carried out successfully once the appliances have been installed, then they are presumably not connected to the same phase. In that case an electrician has to install a so-called phase coupler in the fuse box.



The phase coupler permits data transmission from one phase to the other phases, enabling the appliances to communicate.

It is possible for an external Liebherr appliance to be controlled by a third-party appliance?

No. A setup has to be carried out during installation of the system. In this setup the appliances perform a handshake – the expert says each appliance receives its own address. As a result, the appliances recognise whether a data package comes from a familiar appliance or from an unfamiliar appliance. If the data package is from an unfamiliar appliance, it is simply ignored. This rules out the possibility of a HomeDialog system intervening with the neighbour's HomeDialog system.

Does the system also work in a multi-storey building?

Yes and no. The longer the transmission length, the more difficult data transmission becomes because the signal is weakened (=attenuated).



Which appliances can communicate with one another via the HomeDialog system?

The master appliances are:

Up to model year 2007

Liebherr CNPes 3867 Liebherr CBN 3857 Liebherr CBNes 3857 Liebherr CN 5067 Liebherr CNes 5057 Liebherr CNes 5067 Liebherr CBNes 5067

HBM PLC master home bus module **up to model year 2007** Order No. 9988 088

From model year 2008/2009

Liebherr CBNes 3967 Liebherr CBNes 3957 Liebherr CBNes 5167

HBM PLC master home bus module from model year 2008/2009 Order No. 9988 178

The slave appliances are:

Up to model year 2007

Liebherr GN 1856 Liebherr GN 2056 Liebherr GN 2156 Liebherr GN 2456 Liebherr GN 2556 Liebherr GN 2856 Liebherr GN 2956 Liebherr GNP 2076 Liebherr GNP 2476 Liebherr GNP 2976 Liebherr GNP 3376

HBM PLC slave home bus module **up to model year 2007** and WK(es) 29-46, WTes 41 Order No. 9988 074

From model year 2008/2009

Liebherr GN 1956 Liebherr GN 2356 Liebherr GN 2756 Liebherr GN 3056 Liebherr GNes 3066 Liebherr GN 3076 Liebherr GNes 3076 Liebherr CBN 3956 Liebherr CBNes 3956 Liebherr CBNes 3966 Liebherr WTNes 3056 Liebherr BNes 3256 Liebherr CBN 4656 Liebherr CBNes 4656 Liebherr CBN 5156 Liebherr CBNes 5156 Liebherr SBSes 7273

HBM PLC slave home bus module **from model year 2008/2009** Order No. 9988 176

A retrofit kit is available as an accessory for the following appliances which are not pre-fitted in readiness for the HomeDialog system (HomeDialogReady).

Wine cabinets:

Liebherr WK 2976 Liebherr WK 2977 Liebherr WK 4176 Liebherr WK 4177 Liebherr WK 4676 Liebherr WK 4677 Liebherr WKes 4176 Liebherr WT 4176 Liebherr WT 4177 Liebherr WT 4176 Liebherr WT 4176

HBM PLC HomeDialog home bus module (slave) retrofit kit (wine cabinets) Order No. 9590 585

In addition to the retrofit kit, these appliances have to be fitted with the HBM PLC slave home bus module No. 9988 074.

Combined fridge-freezers:

Liebherr CN 3556 Liebherr CNes 3556 Liebherr CN 3956 Liebherr CN 4056 Liebherr CNes 4056 Liebherr CNes 4066 Liebherr CN 4656 Liebherr CNes 4656 Liebherr CN 5156 Liebherr CNes 5156

Freestanding refrigerators, 60 cm wide:

Liebherr K 3670 Liebherr Kes 3670 Liebherr K 4270 Liebherr Kes 4270



Liebherr KB 3160 Liebherr KBes 3160 Liebherr KB 3660 Liebherr KBes 3660 Liebherr KB 4260 Liebherr KBes 4260

Combined Side-by-Side appliances:

SBS 6352 (SK 3610) SBSes 6352 (SKes 3610) SBS 7252 (SK 4210) SBSes 7252 (SKes 4210) SBS 7262 (SK 4210) SBSes 7253 (SKBes 4210) SBSes 7353 (SKes 4210) SBSes 7263 (SKBes 4210) SBSes 7155 (SKBes 4211)

Retrofit kit (combined fridge-freezers, freestanding refrigerators, combined Side-by-side appliances) HBM PLC HomeDialog home bus module (slave) Order No. 9590 094

In addition to the retrofit kit, these appliances have to be fitted with the HBM PLC slave home bus module, Order No. 9988 176.

The retrofit kits have to be installed by qualified personnel only.

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