System overview

Graphical Customer Interface
GKI 300

Sensors and systems for combustion engineering

LAMTEC

www.lamtec.de

Visualise burner values and flue gas measurements with LAMTEC GKI300.

LAMTEC's GKI300 Graphical User Interface offers data visualisation for combustion plants. The 10-inch touchscreen provides a 'plug and play' interface that allows users to configure and read data from LAMTEC Burner Management Systems including ETAMATIC, ETAMATIC OEM, FMS and BT300.

The GKI300 uses a standalone panel PC with 10-inch touchscreen preloaded with LAMTEC's VISIOCONTROL software. On start-up the main screen displays a graphic representation of the burner configuration complete with operational data. Additional information can be displayed and functions invoked using the following menu options:
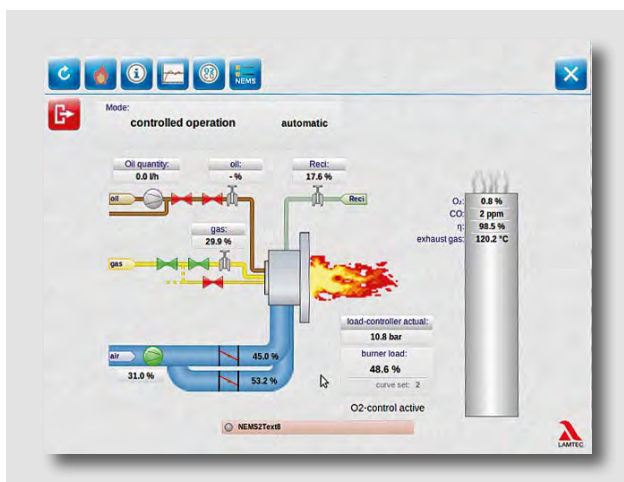
- Refresh
- Burner operation
- Fuel-air ratio curves
- Firing rate controller
- CO/O$_2$ control
- NEMS fault indication
- Close application
- Data setting
- Fault history

All relevant information about the combustion plant would be displayed. At the same time, setpoint curves can be read in and firing rate values can be preselected. The burner itself can be switched on by GKI300 or a switching command can be sent to the connected device. In the fault history list, the last 10 faults are saved and can be looked at. Through the Ethernet interface on the device, the location within the plant is almost unlimited. Only the power and network connection is to be provided and the GKI300 is ready for use.
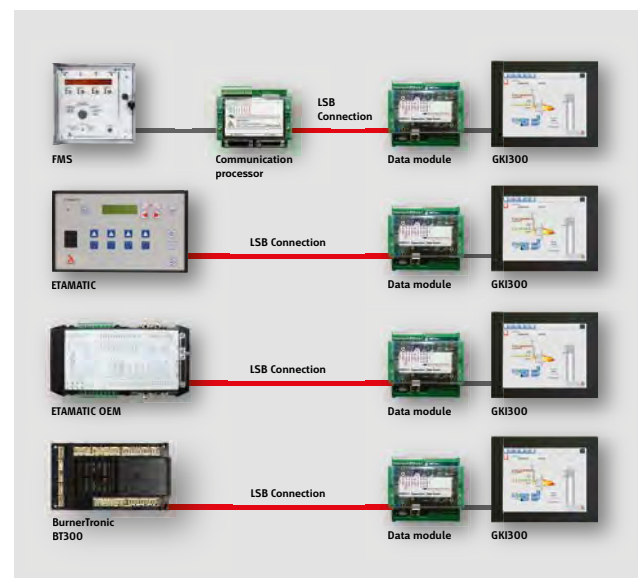
There are two solutions available for the choice of installation: panel installation by using fastening clamps or the VESA 100 holder, which can be placed on any desk with the GKI300.

Advantages:
- Starting window with a display of the usual burner values and the existing exhaust gas values, if pertinent
- A fault history containing the last 10 faults
- Display of O$_2$ setpoint curve and CO/O$_2$ setpoint curve
- Display of CO/O$_2$ optimisation curve and fuel/air ratio curves
- Visualisation of burner details with the status of the inputs and outputs
- Display of operating hours
- Change of the setpoint values of a firing rate controller integrated into the burner control unit
- Fault reset
- Specification of burner capacity
- Setting mode mode release

Screenshot main menu.

Functional overview of GKI300.

Basic Device.

GKI 300 side connections and front view.

GKI300 – What's in the box?

As a standard, the GKI300 would be delivered as follows:
- GKI300
- Power supply unit
- Mains connecting cable
- Adjustable power connection
- User CD for WinXP, Win7, Win8, Linux, 32Bit/64Bit
- WLAN antenna
- Touch pen
- Fastening clamps for switch cabinet installation

Optional Components.

Data Module

The LAMTEC data module connects the GKI300 with the LAMTEC SYSTEM BUS, making it possible to read information and configurations as well as control of combustion systems with the GKI300. Except for FMS and VMS, all of LAMTEC's burner controls can be directly connected. Should there be no network with switch available, the GKI300 can be directly connected to a crossover Ethernet cable of the data module.

VESA100 Holder

The GKI300 can be mounted to a swivel arm or pedestal using a VESA 100 (Video Electronics Standards Association) holder. Using four screws included in the supply, the VESA 100 holder is attached to the back of the GKI300. The use of a VESA100 holder is only suitable for dry locations.

Communication Processor

If LAMTEC burner control FMS is used, an additional communication processor is necessary. This connects the burner control with the data module as well as the GKI300.