System overview

Graphical Customer Interface
GKI 300

Sensors and systems for combustion technology

LAMTEC

Visualise burner values and flue gas measurements with LAMTEC GKI300.

LAMTEC's GKI300 'graphical customer interface' offers a data visualisation solution for combustion plants. With the 10-inch touch screen monitor of GKI300, it is possible to configure and to read burner controls such as ETAMATIC, ETAMATIC OEM, FMS or BT300.

Basically, a stand-alone computer with a 10-inch touch screen would be used. For control purposes, LAMTEC VISIO CONTROL software which is preinstalled by default would be used. After the system start-up, it visualises the configuration of the combustion plant and these would be visually displayed. The following menus are available for users:

- Refresh
- Burner operation screen
- Fuel-air ratio curves
- Load controller
- CO/O_2 control
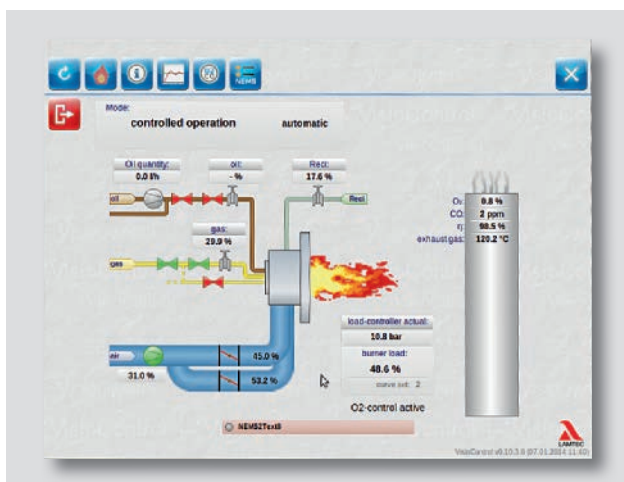- NEMS fault indicator
- Close application
- Data setting

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
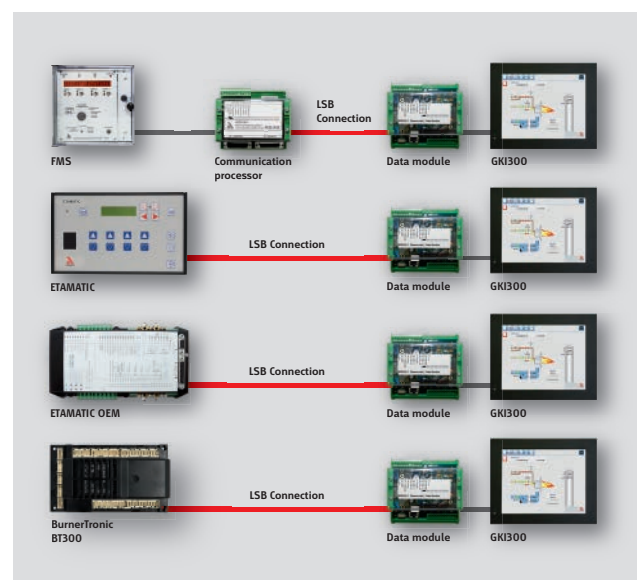
GKI300 is ready for use. There are two solutions available for the choice of installation: panel installation by using fastening clamps or the VESA 100 holder, which can be placed on any desk with the GKI300.

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 learning 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 load controller integrated into the burner control unit
- Fault reset
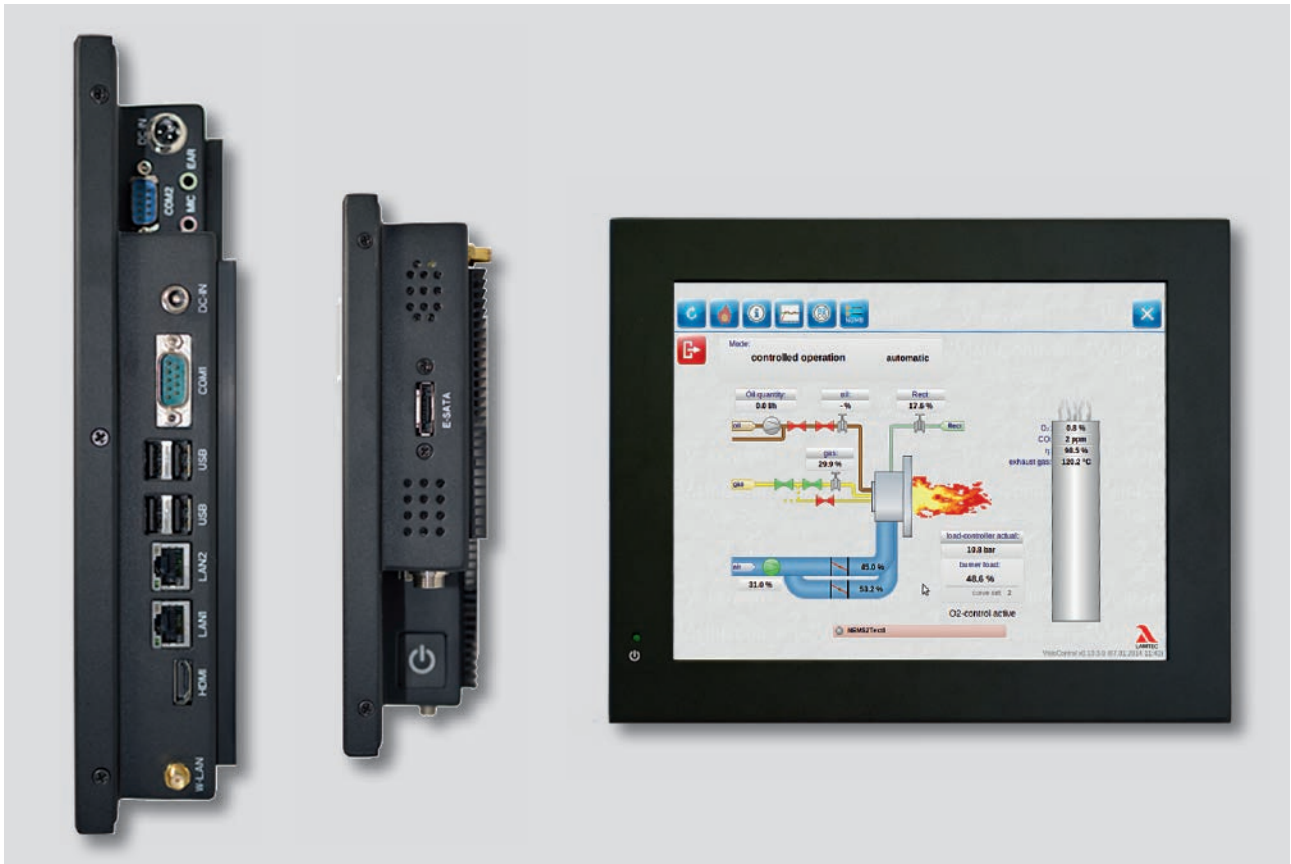- Specification of burner capacity
- Adjust mode release

Screenshot main menue.

Functional overview of GKI300.

Basic Device.

GKI 300 side connections and front view.
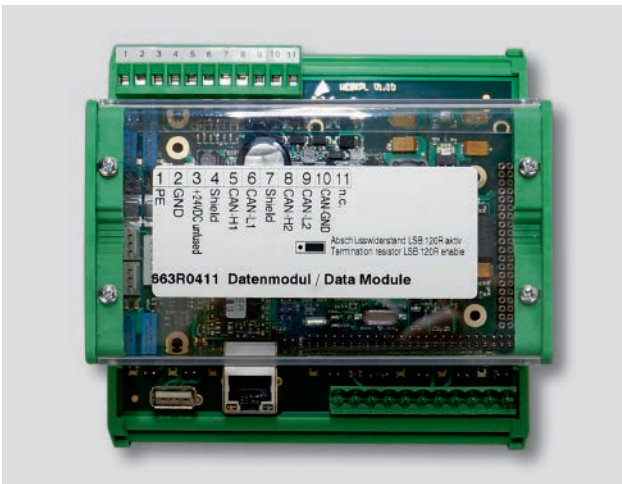

GKI300 Scope of delivery.

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 transposed 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 VESA 100 holder is only suitable in a dry room.

Communication Processor

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