

# GoGaS®

WE BRING HEAT  
STRAIGHT TO THE POINT



## AUTOMATIC CONTROLS

**GoGaS – Your Big Plus**

- Bus-compatible MABus<sup>2</sup>
- Patented two-step nozzle
- Comfort control



## Automatic controls. Intelligent and efficient.

**Automatic control systems** are essential components of a properly functioning heating system. Along with directly adjusting the room temperature to changing influences such as the outside temperature, solar radiation or sources of heat in production operations, their aim is above all to save energy. Studies have shown that an upward deviation of the room temperature by 1 °C from the set point value corresponds to extra energy consumption of approximately 7 %. For this reason, the precision of the measuring instrument, the response rate and the control precision are of great importance.

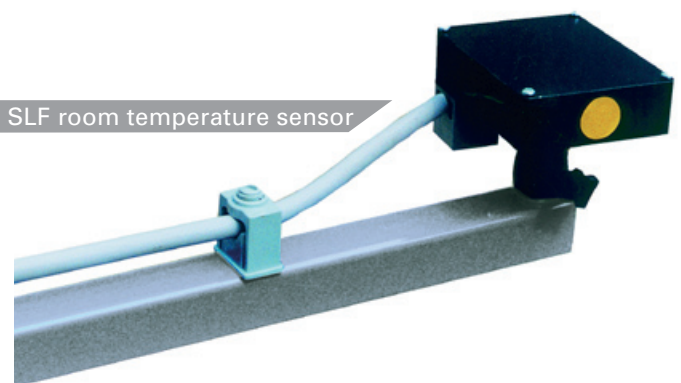
The choice of the right control unit depends on the user characteristics, the size of the room, the precision of the temperature and the type of heating (i. e. partial or full space heating).

Gas infrared heaters can be controlled in single stage, two stages or modulation. A two stage controller is recommended for units which place great demands on controller comfort. This controller covers the range 100 % to 50 % of the heat output. If the demand for heat is lower, the unit's output can be reduced still further by switching specific heaters off in groups.

The recommended temperature  $t_r$  in a building represents a combination of the air and the effective temperature.

$$t_r = t_l + t_s$$

For this reason it is essential to use a special sensor that can record not only the air but also the effective temperature. The GoGaS SLF room temperature sensor allows not only for the effective air temperatures but also records influences such as machine heat, solar radiation, cold surrounding surfaces etc.



Switch box SK 04 Z



Control unit Infracronic Comfort

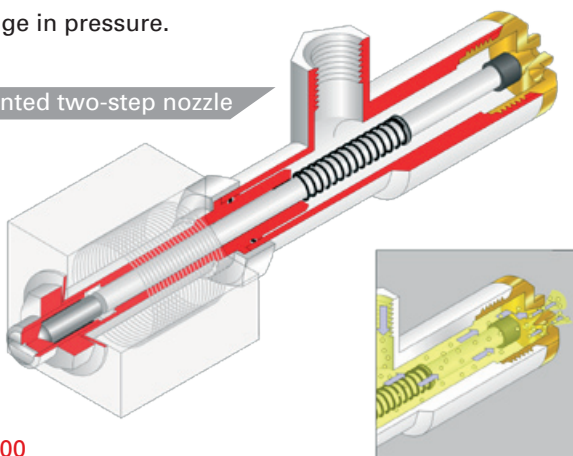


# Sensible and measurable perfection.

## Two-stage nozzle.

Gas infrared radiant heaters are mainly operated pressure controlled in one or two stages. In industrial buildings with low gas supply pressures a two-stage operation of gas infrared radiant heaters is difficult or impossible because of the low pressure potential. The patented GoGaS two-stage nozzle guarantees a complete two-stage operation of the heating system even with low gas pressure. The output is controlled by means of the same pressure through changeable jet cross-section, and not as previously by means of a change in pressure.

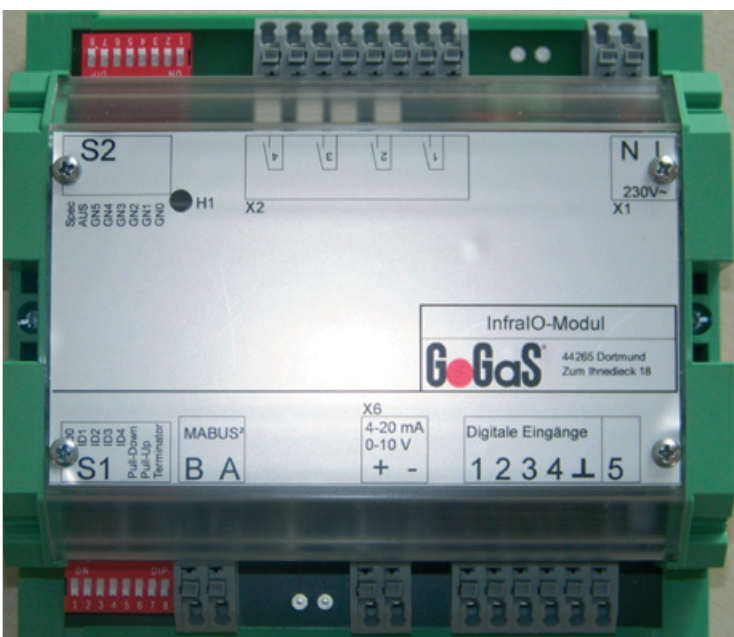
Patented two-step nozzle



## SG 300

With the redevelopment of the controller SG 300 the current EN 298 was realized. The SG 300 allows the control and trouble shooting of separate heaters. The serial gateway allows the actuation of the SG 300 by a two-wire bus line in conjunction with our InfraControl-Software and a gateway.

Infracronic Module



## Controllers.

GoGaS control units are used above all with single radiant heaters or smaller groups of radiant heaters for heating partial areas. The controllers are available with different features, e. g.:

- Timers
- Fan drivers
- Key switchers

## Microprocessor Control.

A standard component of modern heating systems is a temperature control system that enables settings of temperature desired values, flexible switching times for the heating unit, and the output to be adjusted to any operating conditions, e. g. lowering during the night, heating of individual places, etc.

Our Infracronic Comfort is a fully automatic regulation system for GoGaS high and low intensity heaters and gas-fired air heaters.

For operation with high intensity heaters the fan driver is already included in the Infracronic. If you operate low intensity heaters with a collective exhaust system this option is also provided in the Infracronic Comfort.

The control system Infracronic Module offers the same functionality but it is designed to be installed in an existing control cabinet.

Infracronic Comfort and Module offer the following features:

- Bus-compatible MABus<sup>2</sup>
- Time-optimized starting of the heating system after night-time operation
- Programmable for one week
- Ventilation function in summer operation
- Self-diagnostics in case of failure function

# Central control technology.

The GoGaS-software InfraControl offers a centralized regulation and control of several regulation systems of type Infracronic Comfort.

Companies with several buildings can directly influence the control mode by using the InfraControl software. Temperature characteristics of each control circuit can be depicted graphically and analyzed.



By means of a modem and a remote-control the heating system can be accessed worldwide.

The user can enter his buildings plans in the software and then position the heating components freely. The modules show the control mode as well as set temperature and actual temperature.

In connection with the variable I/O modules control tasks can be taken over. You only need a simple connection to the existing bus conductor.

# GoGaS®

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