

# 3.07



## Gas Analyser System for heat treatment furnaces mgas

### **Function:**

Transportable Instrument (Bench-mounting) to determine the following Gas-Concentrations:

- Carbon monoxyde %CO
- Carbon dioxyde %CO<sub>2</sub>
- Hydrogen %H<sub>2</sub>
- Methane %CH<sub>4</sub> - Temperature °C
- Temperature (TC, Type K or S)
- Carbon-level %C (calculated from gas components and the process temperature)

This equipment is qualified to supervices furnace atmospheres online or for sample check, max. 6 different values are shown on the display together. Standardized analogous outputs or optional a serial interface are possible.

The equipment is adjustable by a high-quality foil keyboard with self explainable text menu in german and english language. Automatic calibration for zero-point and span for all gas components together is possible.

The advanced gasmitter represents the latest technological achievement in non-dispersive infrared gas transducers with high accuracy, good long-thermstability and excellent repeatability.

## **Technical Data:**

**Construction:** Transportable Instrument (Bench-mounting)

**Dimensions:** 437 x 155 x 395 mm (w x h x d)

#### Weight: 12,5 kg

Protection type: IP 20 to IEC 529

#### Auxiliary supply:

230 V +/- 10 % / 50-60 Hz about device connector

#### Heat up time:

approx. 10 min.

#### Climate:

Storage:	050 °C
Operation:	540 °C

#### Measuring range:

CO:	035,0 %
CO,:	00,500 %
H": Ī	080,0 %
CH̃_:	020,0 %
°C:	01200 °C
C:	01,50 %

Other measurement ranges on request.

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## Technical data:

Measuring gas components: max. 4

Additional calculation: % Carbon-level

#### Measuring method:

NDIR dual wavelength principle no moving parts

<b>Influence values</b> Drift with autocal.	neglectable
Drift without autocal.	± 2% FS over 12 months
Linearity error:	< 2% FS
Temperature dependence with autocal.	neglectable
Temperature dependence without autocal.	± 2% FS/10 °K
Pressure dependence: $\pm 0.2\%$ FS/10 mbarCompensated by internal pressure sensorbetween 800 mbar and 1200 mbar.	