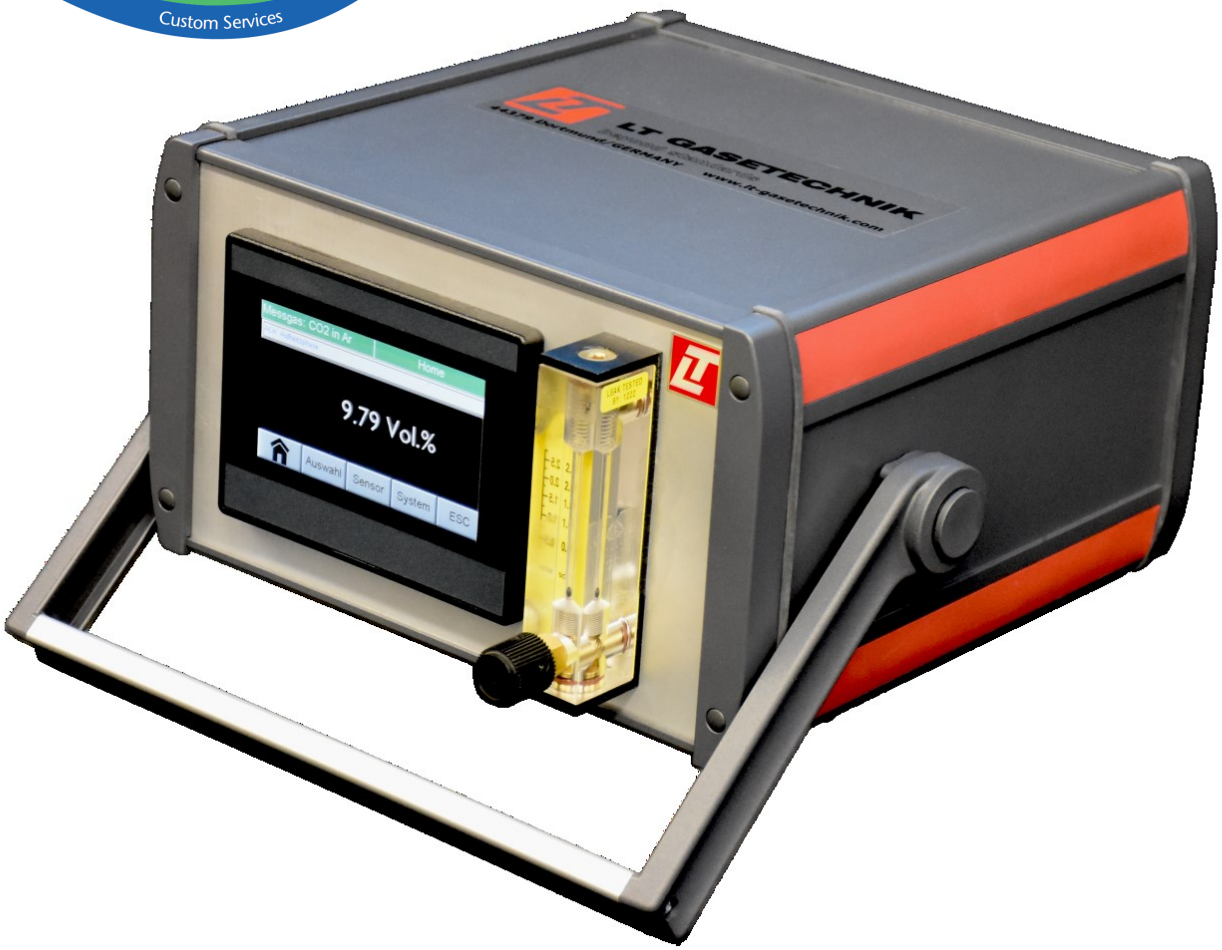
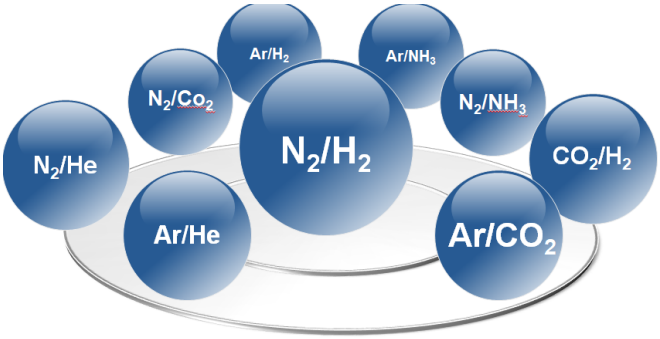
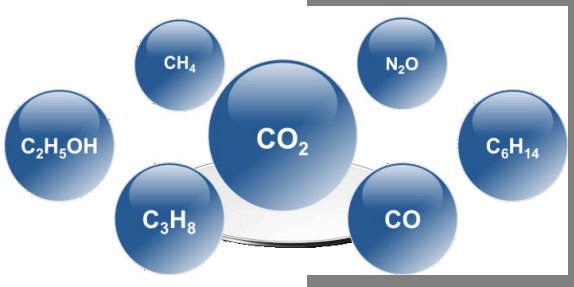
BOISWOOD
GAS AND LIQUID CONTROL TECHNOLOGIES

Pressure & Vacuum
Flow
Level & Temperature
Tube & Fittings
HVACR
Custom Services

LT GASETECHNIK
beyond standards
weyer gruppe







LT GasAnalyzer Mobile

beyond standards

LT GasAnalyzer Mobile

The powerful mobile gas analyzer from LT GASETECHNIK for the flexible on-site operation to measure the concentration of technical gases on basis of precise and robust sensors. Equipped with thermal conductivity sensor or infrared sensor or with two sensors at the same time for significantly improved repeatability.

Our solution

Lightweight, mobile system, in a small housing with a lot of functions integrated:

- Extractive online measurement of the concentration of combustible or non-combustible gas components in gas mixtures
- Display of sample gas flow with variable area flowmeters
- Response time: T90 time
  < 1 seconds thermal conductivity sensor
  < 5 seconds infrared sensor
  Ready for operation after 15 min heat-up phase
- Precise measurement
- Low drift sensors, high long-term stability
- Suitable for installation outside ex-zones
- Long term data recording for analysis with spread sheet calculation
- At request, tailored configurations to suit individual specifications

flexible – precise - mobile

Measured gases

1. **Thermal conductivity** detector, gas combinations and ranges

Measured gas	Carrier gas	Smallest range	Largest range
H_2	N_2 or air	0 - 0.5 Vol.%	0 - 100 Vol.%
H_2	Ar	0 - 0.4 Vol.%	0 - 100 Vol.%
H_2	He	20 - 40 Vol.%	20 - 100 Vol.%
H_2	CH_4	0 - 0.5 Vol.%	0 - 100 Vol.%
H_2	CO2	0 - 0.5 Vol.%	0 - 100 Vol.%
He	N_2 or air	0 - 0.8 Vol.%	0 - 100 Vol.%
CO_2	N_2 or air	0 - 3 Vol.%	0 - 100 Vol.%
CO_2	Ar	0 - 10 Vol.%	40 - 100 Vol.%
Ar	N_2 or air	0 - 3 Vol.%	0 - 100 Vol.%
Ar	CO_2	-	0 - 100 Vol.%
CH_4	N_2 or air	0 - 2 Vol.%	0 - 100 Vol.%
CH_4	Ar	0 - 1.5 Vol.%	0 - 100 Vol.%
O_2	N_2	0 - 15 Vol.%	0 - 100 Vol.%
O_2	Ar	0 - 2 Vol.%	0 - 100 Vol.%
N_2	Ar	0 - 3 Vol.%	0 - 100 Vol.%
N_2	CO_2	0 - 4 Vol.%	0 - 100 Vol.%
NH_3	H_2	0 - 5 Vol.%	0 - 100 Vol.%
NH_3	N_2	0 - 10 Vol.%	0 - 100 Vol.%
CO	H_2	0 - 2 Vol.%	0 - 100 Vol.%
SF6	N_2 or air	0 - 2 Vol.%	0 - 100 Vol.%

Note: Measurement of CO_2 content with a thermal conductivity detector is possible, but the repeatability is not stable, so we recommend choosing an infrared sensor. Measurement of O_2 is possible with daily calibration

2. **Infrared** sensor, standard-gases and ranges

	Smallest range	Largest range
CO	0 to 1,000 Vol.ppm	0 to 100 Vol.%
CO_2	0 to 30 Vol.ppm	0 to 100 Vol.%

Please contact us for solutions for other gases or measurement ranges

Design

Mobile analysis system, comfortably equipped:

Integrated functions

- Sensor und control unit in a small housing (approx.. 400 x 400 x 200 mm), with comfortable touch screen control
- Operating temperatures 0-40°C
- Sample gas up to. 10 barg, max. 40°C, throughput approx. 1 l/min
- Logging of gas analysis value (up to one year), for analysis with eg. Excel
- LAN RJ45 interface for communication with common industrial protocols, eg. Modbus TCP/IP, FTP Transfer etc.

Operation and communication

- Easy and intuitive operation via 4" colour touchscreen
- Open interface architecture
- Extensive self-diagnostic functions with message transfer
- Customized versions possible

Options

Several standard options, individual configurations possible:

- One analogue output for each sample gas component
- Second sensor for infrared or heat conductivity – internal
  Further sensor for O_2 (ZnO_2) - external
- Other languages of the user interface
- 8 channel binary I/O (4 x in, 4 x relays out)
- Analogue input module with 4 inputs (0/4-20mA)

***LT GasAnalyzer Mobile** – rear view*

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Martener Str. 535 – 44379 Dortmund – Germany
Tel +49 231 / 96 10 70-0 Fax +49 231 / 61 38 44
www.lt-gasetechnik.com mail@lt-gasetechnik.com
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