



# Flue gas analyser MULTILYZER STx



## Benefits

- All-in-one: Flue gas analysis, (differential) pressure measurement, (differential) temperature measurement, dust measurement, Pitot measurement (in conjunction with STM 225)
- ECO sensor: Lead-free O<sub>2</sub> sensor with long service life and optimised calibration phase, short response time, resistant to biogenous fuels
- Can be equipped with a combination of up to six sensors: O<sub>2</sub>, CO/H<sub>2</sub>, NO, SO<sub>2</sub>, NO<sub>2</sub> und CO<sub>high</sub>
- CO room air monitoring
- qA mean value measurement as per 1st German Federal Immission Act BImSchV
- Quick-access function keys for direct data access
- Measurement logs as QR code, database memory, customer data management
- 5 years warranty on O<sub>2</sub>, CO/H<sub>2</sub> sensors
- 7 years full warranty in connection with a service contract
- CAPBs®-enabled



## Application

Flue gas analyser for measuring small and medium-sized oil, gas and pellets fired heating systems according to the German Federal Immission Act and for CO concentration safety checks at gas fired systems. Ideal for servicing solid fuel systems (for example, coal or wood fired systems with temporary CO peaks) or bivalent, modulating combined heating and power plants. If used within the framework of dust measurements, MULTILYZER STx determines the flue gas value and serves as the central controller for the dust measuring instrument STM 225.

## Versions

	Sensors / functions	Part no.
MULTILYZER STx Set 1	O <sub>2</sub> , CO <sub>H2</sub> , (differential) temperature, draft, differential pressure	P04729210
MULTILYZER STx Set 2	O <sub>2</sub> , CO <sub>H2</sub> , NO, (differential) temperature, draft, differential pressure	P04730210
MULTILYZER STx Set 3	O <sub>2</sub> , CO <sub>H2</sub> , CO <sub>40,000</sub> , (differential) temperature, draft, differential pressure	P04741210
MULTILYZER STx Set 4	O <sub>2</sub> , CO <sub>H2</sub> , NO, CO <sub>40,000</sub> , (differential)temperature, draft, differential pressure	P04748210
MULTILYZER STx Set 5	O <sub>2</sub> , CO <sub>H2</sub> , CO <sub>40,000</sub> , (differential) temperature, draft, differential pressure, module particulate matter measurement	P04741217

Blue part no. = in-stock items



## Technical specifications

### Measuring ranges (measured values)

**Flue gas temperature/differential temperature**  
0/1,150 °C

**Air temperature/combustion air temperature**  
-20/+200 °C

**Draft**  
-70/+70 hPa

**Differential pressure**  
-150/+150 hPa

**Barometric pressure**  
500/1,150 hPa

**Pitot**  
0.5/70 m/s

**O<sub>2</sub> measurement**  
0/21 Vol.-%

**CO<sub>H2</sub> measurement**  
Maximum: 0/10,000 ppm

**CO measurement**  
0/40,000 ppm

**NO measurement**  
0/5,000 ppm

### Additional technical specifications

**Indication (calculated values)**  
CO<sub>2</sub>, CO<sub>Undiluted (air-free)</sub>, Lambda, Eta efficiency, Flue gas losses  
qA, Dew point, temperature difference, CO mg/m<sup>3</sup> (natural gas),  
CO mg/kWh (fuel oil)

**Operating temperature range**  
Ambient: 5/40 °C  
Storage: -20/+50 °C

**Weight (measuring instrument)**  
631/643 g (depends on equipment with sensors)

**Dimensions**  
W x H x D: 90 x 220 x 53 mm

**Degree of protection**  
IP 42 (EN 60529)

**Display**  
TFT colour display  
3.5 "  
W x H: 53 x 71 mm  
240 x 320 pixels

### Connections

Draft/pressure: Ø 7 mm  
Gas: Ø 8 mm  
Temperature: Socket type K

### Supply voltage

Lithium-ion battery (3.6 V/2,900 mAh)  
Power supply unit (mini USB)  
Battery or mains

### Hours of operation

Max. 12 Stunden

### Data memory

MicroSD card, max. 32 GB

### Data logger

1-999 seconds, interval freely selectable

### Interfaces

Infrared,  
Bluetooth®,  
QR code generator,  
MicroSD card slot

### Approvals

1. BImSchV,  
KÜO (TÜV ByRgG 301),  
EN 50379-2

### Scope of delivery

- Measuring instrument
- Calibration report
- Protective sleeve for device with magnets
- Power supply unit NTE 5 USB-A
- Charging cable USB-A - mini USB
- MicroSD card with USB 2.0 SD card reader
- Base handle AWS-B for interchangeable probes 2.4 m condensate filter cartridge/draft
- Interchangeable probe AWS-S 300 mm
- Condensate filter cartridge KFP
- Infiltec fine filter (5 pieces)
- Teflon membrane (5 pieces)
- Ambient air probe TFB-UL 50-1
- Connection kit ASS-DP
- Case



## Detail views



1. Temperature connection, for example, for ambient air/combustion air temperature
2. Temperature connection, for example, for flue gas temperature
3. Gas inlet
4. Pressure/differential pressure measurement
5. Infrared printer interface
6. Signal unit (speaker)
7. MicroSD card slot
8. Mini USB connection for power supply unit/charger