



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 O₂ sensor with long service life and optimised calibration phase, short response time, resistant to biogenous fuels
- Sensor equipment with a combination of up to six measuring cells: O₂, CO_{H2}, NO, SO₂, NO₂ and CO_{40,000}
- CO room air monitoring
- QA mean value measurement as per 1st German Federal Immission Act BImSchV
- Measuring is possible with two active display levels
- Measurement logs as QR code, database memory, customer data management
- 5 years warranty on O₂ measuring cell
- 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	DG	PG	Part no.	Price (€)*
MULTILYZER STx Set 1	O ₂ , CO _{H2} , (differential) temperature, draft, differential pressure	H	4	P04729210	
MULTILYZER STx Set 2	O ₂ , CO _{H2} , NO, (differential) temperature, draft, differential pressure	H	4	P04730210	
MULTILYZER STx Set 3	O ₂ , CO _{H2} , CO _{40,000} , NO, SO ₂ , (differential) temperature, draft, differential pressure	H	4	P04741210	
MULTILYZER STx Set 4	O ₂ , CO _{H2} , NO, CO _{40,000} , (differential) temperature, draft, differential pressure	H	4	P04748210	
MULTILYZER STx Set 5	O ₂ , CO _{H2} , CO _{40,000} , (differential) temperature, draft, differential pressure, module particulate matter measurement	H	4	P04741217	
MULTILYZER STx Set	O ₂ , CO _{H2} , CO _{40,000} , NO, SO ₂ , (differential) temperature, draft, differential pressure, module particulate matter measurement	H	4	P04745217	

* prices plus applicable VAT [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 hPa

Differential pressure
150 hPa

Barometric pressure
500/1,150 hPa

Pitot
0.5/70 m/s

O₂ measurement
0/21 Vol.-%

CO_{H2} measurement
Maximum: 0/10,000 ppm

CO measurement
0/40,000 ppm

NO measurement
0/5,000 ppm

SO₂ measurement
0/5,000 ppm

Indication (calculated values)

CO₂, CO_{Undiluted (air-free)}, Lambda, Eta efficiency, Flue gas losses qA,
Dew point, temperature difference

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

IP42 (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® Smart,

QR code generator,

MicroSD card slot

Approvals

1. BImSchV,

KÜO (TÜV ByRgG 301),

EN 50379-2



Detail views



1. Temperature connection, for example for flue gas temperature/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