Flue gas analyser

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_2 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: O2, CO/H2, NO, SO2, NO2 und COhigh
- 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 O2, CO/H2 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.

Technical Specifications

measuring ranges (measured values)

Flue gas temperature/differential temperature
0/1150 °C

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

Draft
-70/+70 hPa

Differential pressure
-150/+150 hPa

barometric pressure
500/1150 hPa

Pitot
0.5/70 m/s

O_2 measurement
0/21 Vol.-%

additional technical specifications

Indication (calculated values)
CO_2, $CO_{undiluted\ (air\text{-}free)}$, Lambda, Eta efficiency, Flue gas losses qA, Dew point, temperature difference

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

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: ∅ 7 mm
pressure: ∅ 7 mm
Gas: ∅ 8 mm
temperature: socket type K

Supply voltage
lithium-ion battery (3.6 V/2900 mAh)
power supply unit (mini USB)
Battery or mains

Hours of operation
max. 12 hours

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

Versions

	sensors / functions		Part no.
MULTILYZER® STx Set 1	O_2, CO_{H2}, (differential) temperature, draft, differential pressure	●	P04729210
MULTILYZER® STx Set 2	O_2, CO_{H2}, NO, (differential) temperature, draft, differential pressure	●	P04730210
MULTILYZER® STx Set 3	O_2, CO_{H2}, $CO_{40,000}$, (differential) temperature, draft, differential pressure	●	P04741210
MULTILYZER® STx Set 4	O_2, CO_{H2}, NO, $CO_{40,000}$, (differential)temperature, draft, differential pressure	●	P04748210
MULTILYZER® STx Set 5	O_2, CO_{H2}, $CO_{40,000}$, (differential) temperature, draft, differential pressure, module particulate matter measurement	●	P04741217

● in-stock items

○ Non-stock items