




METHAWO 5.100

Portable multifunction measuring device for CH₄ Type HMG 01.03

This portable measuring device combines three fundamental functions in one device:

- Portable measuring device for the personal, continuous monitoring of the methane concentration with audio visual signalling.
- Portable measuring device for the punctual measurement of the methane concentration by means of diffusion. The gas sampling can be made also with the built-in gas pump by means of a test adapter with tube and testing probe.
- Portable measuring device for the measurement of the methane concentration in gas exhaust pipes. The gas sampling occurs with the built-in gas pump by means of a test adapter with tube and testing probe.


-  I M1 Ex ia I
- Measuring range: 0.00...5.00...100.0 % CH₄
for the personal and punctual measurement
- Measuring range: 0.0...100.0 % CH₄
for the measurement in gas exhaust pipes
- Principle of measurement: Catalytic combustion and thermal conductivity with gas diffusion entry
- Protection of the catalytic combustion sensor against high gas concentrations
- Increased accuracy by patented compensation with built-in humidity and temperature sensor
- Built-in pressure compensation for the measurement in gas exhaust pipes
- Built-in gas pump with flow control
- test adapter with tube and testing probe for the gas sampling by means of the built-in gas pump
- Zero point and sensitivity control with test gases
- Illuminable graphic LC-display with 4-digit, 10 mm high, measured value display and a second line for a quasi-analog bar graph or text display
- Measured value display is switchable on % LEL
- Limit values and status information in plain text notation
- Code lock against unauthorized operation
- Adjustment of zero point and sensitivity as well as settings and status requests over push buttons
- Error self diagnosis with alphanumeric display
- Two independently adjustable limit values for audio visual signalling in the 0... 5% CH₄ range and two additional adjustable limit values in the 0... 100% CH₄ range. Monitoring of the limit values can be switched off.
- Alarm signalling: indication on the LC-display, two flashing LED's and an acoustic signal generator
- Carbon fiber reinforced, antistatic plastic.

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Portable multifunctional measurement device for CH₄ - type HMG 01.03

Technical data

Zone, explosion protection rating

 I M1 Ex ia I

Principle of measurement

Catalytic combustion and thermal conductivity

Measuring range

1: 0.00...5.00...100.0% CH₄

2: 0.0...100.0% CH₄ for gas exhausting

Error of measurement

1: < ± 0.1% CH₄ for 0...2% CH₄

< ± 5% of measured value for 2...5% CH₄

1/2: < ± 1.5% CH₄ over 5% CH₄

Influence of temperature, humidity and pressure fulfils
EN 61779

Resolution

1: 0.01% CH₄ for 0...5 % CH₄

0.1% CH₄ for 5...100% CH₄

2: 0.1% CH₄ for 0...100% CH₄

Measured value response time t₉₀

≤14 s

Display sequence

0.25 s

Gas sampling

Diffusion or with built-in electrical gas pump by means of test adapter with tube and testing probe

Optical and acoustic alarms

Alarm 1 self-clearing, Alarm 2 self-holding, error-, battery- and flow-rate alarm

Limit values for the audio visual alarm signalling

Two limit values for measuring range 1, two limit values for measuring range 2
all values adjustable, function disconnectible

Power supply

Intrinsically safe, loadable NiMH-akku, charging time approx. 3 hours, automatic charge control

Operation time

Diffusion > 9 Hrs., Pump mode > 6 Hrs.

Dimensions

H 182 mm, W 76 mm, D 40 mm

Weight

560 g

Accessories



Battery charger type LDG 01.10.230
(not intrinsically safe)



Tube adapter with integrated water stop
type HMG 01.03.071



Two-way test probe for sub pressure-independent
measurements in the gas exhaust pipe
type MSE 01.03.210