



**Compact, portable analyser for the measurement of 16 combinations of gases based on a thermal conductivity sensor.**

**The ideal analyser for mobile use and service.**

**A flexible controller to guarantee quality and productivity of production processes.**

## Benefits

- flexible due to 16 different 2-gas mixtures in one unit
- analysis of 3-component-mixtures, provided 2 gases of the mixture have a similar thermal conductivity and the third gas differs enough from this thermal conductivity
- mobile analysis of gas mixtures at the point of use
- continuous control of the gas mixtures when used with gas mixing systems
- permanent monitoring of set limit values
- alarm possible via min.- and max.- limit transmitter
- easy use through self-explaining functions and settings via touch-screen
- easy calibration
- long lifetime of the sensor
- low maintenance, light and robust
- cost effective and proven in practise
- easy installation and start-up
- minimal response time
- quick change of gas combination
- operator friendly – data and process parameter entry and administration by means of integrated keyboard

- perfect documentation by complete user- and product data as well as error logs
- measured data storage
- administration of gas mixtures
- user management for measurement personalization
- Ethernet connection for network integration
- data transfer via USB port
- hygienic and easy to clean splash-proof stainless steel cabinet / housing

## Options

- automatic change over to calibration gas
- various Ethernet cable

## Caution!

**Combine fuel gases with inert gas only.  
Not suitable for flammable gas mixtures!**

<b>Type</b>	Multi-Analyser MFA 10.0			
<b>Measuring range</b> <b>0–100%</b>	H <sub>2</sub>	in Ar	H <sub>2</sub>	in N <sub>2</sub>
	He	in Ar	He	in N <sub>2</sub>
	CO <sub>2</sub>	in Ar (0-50%)	CO <sub>2</sub>	in N <sub>2</sub>
	Ar	in CO <sub>2</sub> (50-100%)	Ar	in O <sub>2</sub>
	Ar	in N <sub>2</sub>		
	CH <sub>4</sub>	in Ar	CH <sub>4</sub>	in N <sub>2</sub>
	O <sub>2</sub>	in Ar	O <sub>2</sub>	in N <sub>2</sub>
	O <sub>2</sub>	in CO <sub>2</sub>		
	N <sub>2</sub>	in Ar	N <sub>2</sub>	in H <sub>2</sub>
	calibration by customer			
<b>Measuring system</b>	thermal conductivity, long lifetime			
<b>Gas inlet pressure</b>	min. 2.0 bar (dynamic), max. 10 bar (static)			
<b>Flow rate</b>	40 - 150 NI/h			
<b>Resolution</b>	0.01%			
<b>Temperature (gas/environment)</b>	-5 °C up to 45 °C			
<b>Accuracy</b>	<1% end of measurement range			
<b>Gas connections</b>				
<b>Inlet</b>	WITTFIX 6 mm			
<b>Outlet</b>	WITTFIX 6 mm			
<b>Alarm contacts</b>	2 potential free contacts for min. and max. settings (adjustable for each gas)			
<b>Interfaces</b>	USB RJ45 Ethernet analog output 4-20 mA			
<b>Languages</b>	multilingual			
<b>Housing</b>	stainless steel, IP 54			
<b>Weight</b>	approx. 9 kg			
<b>Dimensions (HxWxD)</b> <b>with carry handle</b>	approx. 240 x 330 x 300 mm (9.45 x 12.99 x 11.81 inches) (without connections)			
<b>Voltage</b>	100 - 230 V AC 50 - 60 Hz			
<b>Power consumption</b>	230 V AC / 0.175 A			
<b>Approvals</b>	Company certified according to ISO 9001 CE-marked according to: - EMC 2014/30/EU - Low Voltage Directive 2014/35/EU			