



OMS 420

In situ real-time analysis of oxygen and CO_e.



Reduce costs through combustion optimisation.





Suit on-site conditions

An overview of the different models





OMS 420 RT remote transmitter with pneumatic unit PU420 for automatic calibration

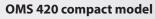
- Aluminium housing with corrosion-resistant, red powder coating
- Separate electronics with LCD display and operating keys
- RS 485 interface with Modbus RTU protocol for digital data transfer
- 4 ... 20 mA analog output, RS 485 (Modbus RTU)
- Power supply: 100 ... 240 V, 100 W



OMS 420 HT – high temperature with ceramic probe and ejector

- For use only at all clean and dusty/dirty combustions and 4" ANSI-150 lbs flange
- Probe design with ejector (sample aspiration via air-jet pump)
- Including automatic back-purge with clean and dry compressed air 6 ... 10 bar
- Power supply: 100 ... 240 V, 100 W





- For use only at clean combustions, ambient to probe head temperature not higher than +60 °C
- Temperature regulated ZrO₂ sensor, transmitter mounted on probe head
- Dual galvanic isolated 4 ... 20 mA analog output and digital output RS 485 (Modbus RTU)
- Power supply: 24 Vdc, 100 W



Service-friendly handling

The OMS 420 transmitter with electronics, display and operating keys as well as the connection tube and the small sensor flange form one unit and are fixed to the probe flange with 4 screws. For service, inspection and repair work simply loosen these 4 screws and replace the complete transmitter within minutes.

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Technical data

Measured values	Measuring range	Accuracy
Oxygen (O ₂)	0.1 25.00 %	± 0.2 % or ± 5 % of reading*
CO _e	0 1,000 ppm	\pm 50 ppm or \pm 10% of reading*

Consultationist data		
General technical data		
Warm-up time	min. 30 min.	
Flange	DN65 PN6 flange, Ø 160 mm	
Probe tube	Ø 60 mm, up to 2 m length	
Flange temperature	min. +70 max. +150 °C (condensation at the flange must be avoided)	
Response time/T90	< 10 sec.	
Analog output	2x current loop 4 20 mA, with galvanic isolation linearized for both 0 25.00 % $\rm O_2$ and 0 1,000 ppm $\rm CO_e$ (user definable settings in 0.5 % steps are possible)	
Digital output	galvanic isolated RS 485 (with Modbus RTU protocol)	
Power supply	18 24 Vdc (for model OMS 420 compact), 90 100 W 100 240 Vac (for model OMS 420 RT and HT), max. 100 W	
Electronics of the transmitter	with local microprocessor, display and 4 push-buttons	
Calibration inlet	with test gas fitting for 6/4 mm tube cal gas supplied manually or automatically by pneumatic unit PU 420	
Back-purge inlet	min. 6 8 bar compressed air with quick connector for 8 mm tube	
Ambient temperature of electronics	-20 +60 °C	
Enclosure Transmitter	die casting aluminium, 160 x 160 x 60 mm and 200 mm probe tube, Ø 50 mm	
Protection class	IP65	
Weight	3.5 kg (without probe and flange)	

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Fuchshalde 8 + 12 74172 Neckarsulm-Obereisesheim Phone +49 7132 99620 · Fax +49 7132 996220 info@mru.de · www.mru.eu MRU representative: