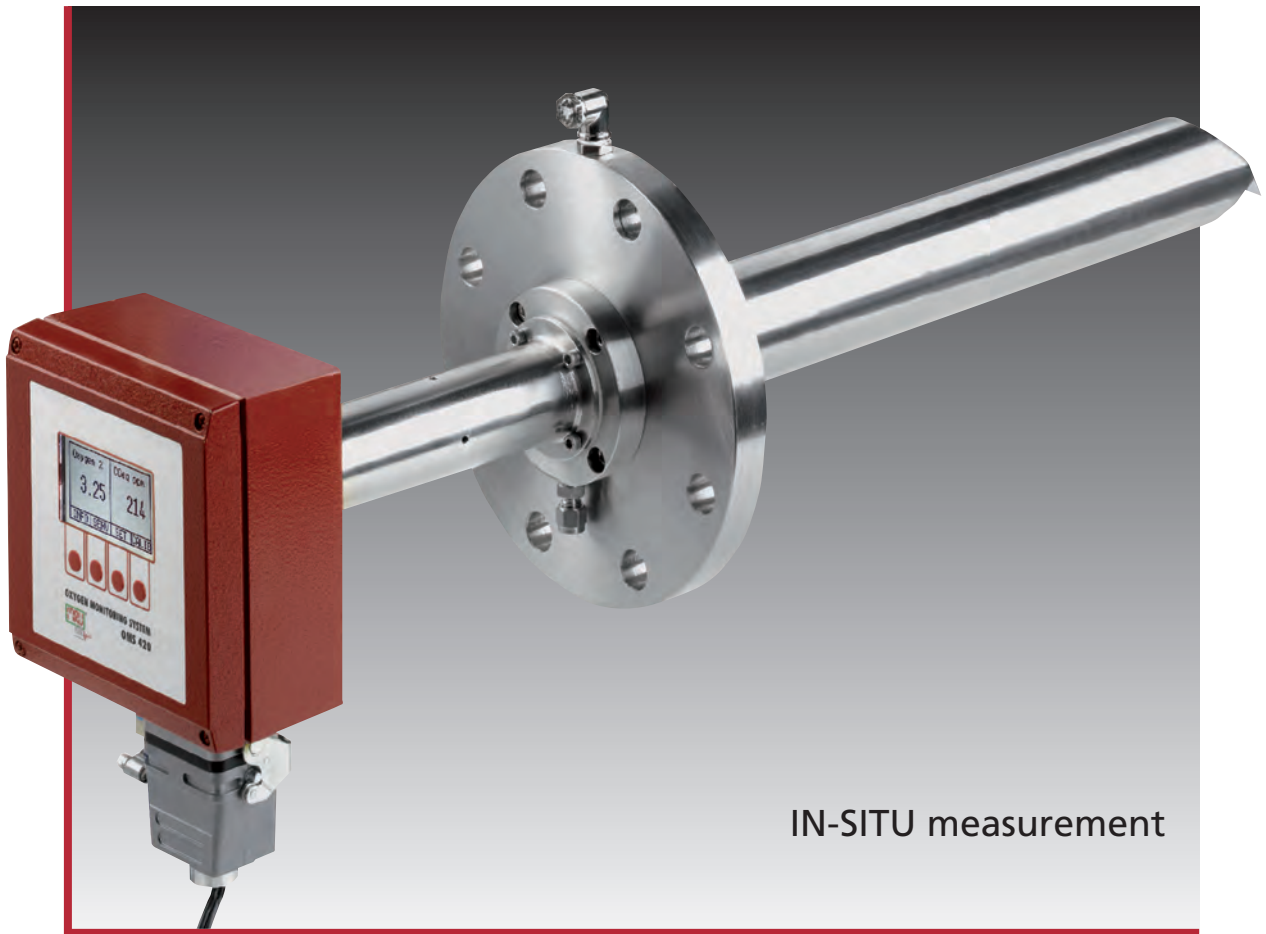




EMISSION MONITORING SYSTEMS

We *care* about the environment

REDUCE COSTS WITH REAL TIME COMBUSTION ANALYSIS



IN-SITU measurement



OMS 420
TOM 420 R
(Low cost probe)

OMS 420

IN-SITU real time analysis Oxygen (O₂) and combustibles (COe)*

Measurement principle

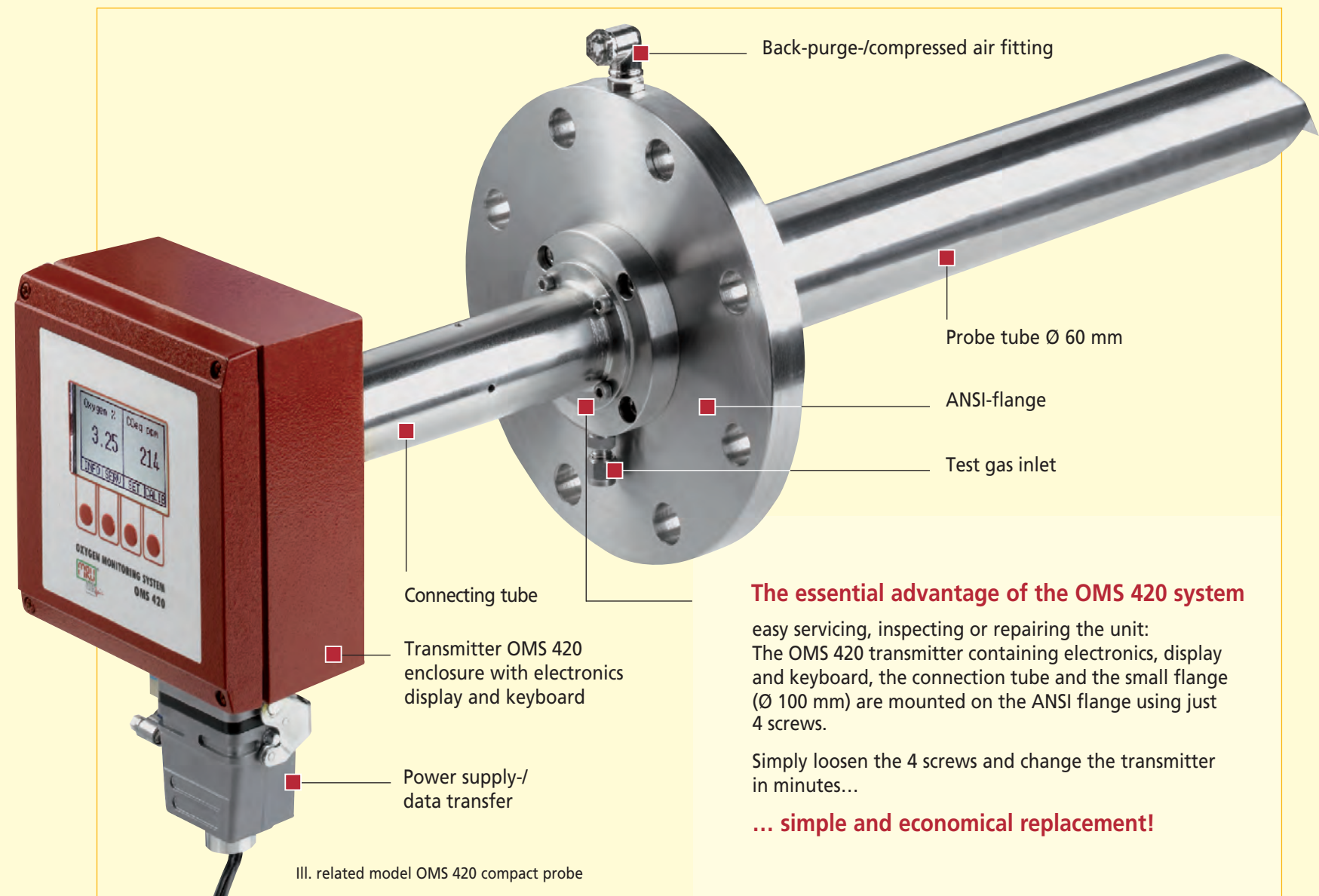
Oxygen (O₂) = ZrO₂ zirconium dioxide
 COe (combustibles) = heated solid electrolyte
 * total of flue gas combustibles (CO + H₂ + C_xH_y) displayed as equivalent CO

Standard features

- Clean combustion (low dust) with combustion temperatures up to max. 1.000 °C
- Die casting aluminium enclosure with electronics, keyboard, up-front display of **O₂** and **COe**
- Standard ANSI-flange with variable probe tube lengths Ø 60 mm and with back-purge-/compressed air connector (other flanges e.g. DIN on request)
- Connecting tube with reference air inlet with small flange, Ø 100 mm
- Rugged industrial plug for power supply and data transfer (analog 4 ... 20 mA, digital RS 485)

Options

- COe measurement
- Compressed air back-purge with control valve complete with electronics, incl. adjustable intervals - recommended for high dust sites -
- Automatic calibration for span and offset, using pneumatic unit PU 420
- Application with high temperatures up to approx. 1.700 °C with ceramic tube and ejector (model HT)
- Remote control- and display unit max. 10 m (model RT) for applications with high ambient-/ radiation temperature >50 °C



III. related model OMS 420 compact probe

The essential advantage of the OMS 420 system

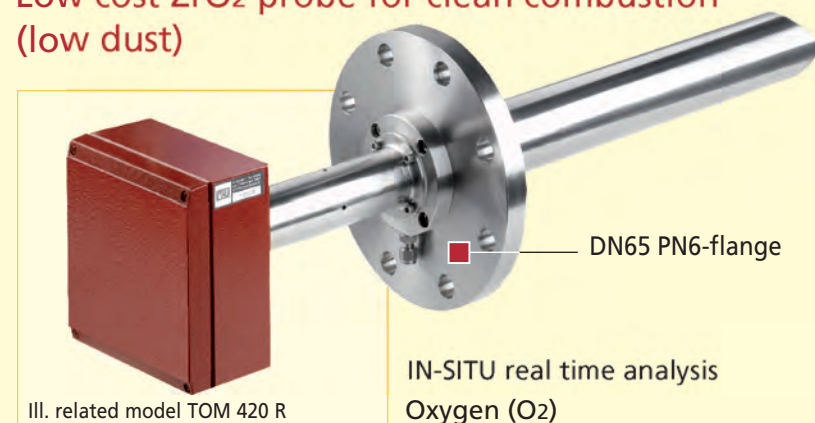
easy servicing, inspecting or repairing the unit: The OMS 420 transmitter containing electronics, display and keyboard, the connection tube and the small flange (Ø 100 mm) are mounted on the ANSI flange using just 4 screws.

Simply loosen the 4 screws and change the transmitter in minutes...

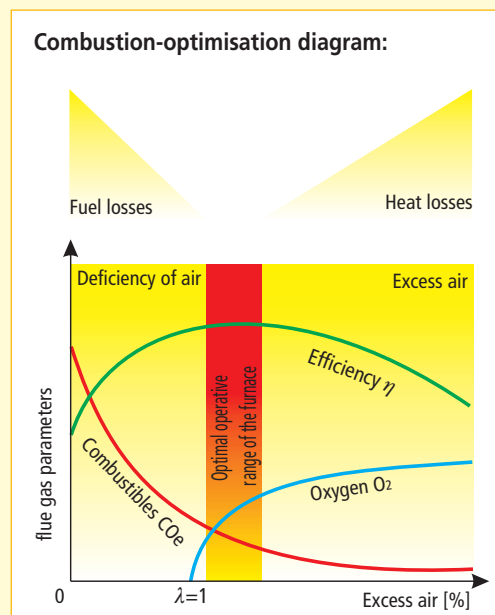
... simple and economical replacement!

TOM 420 R

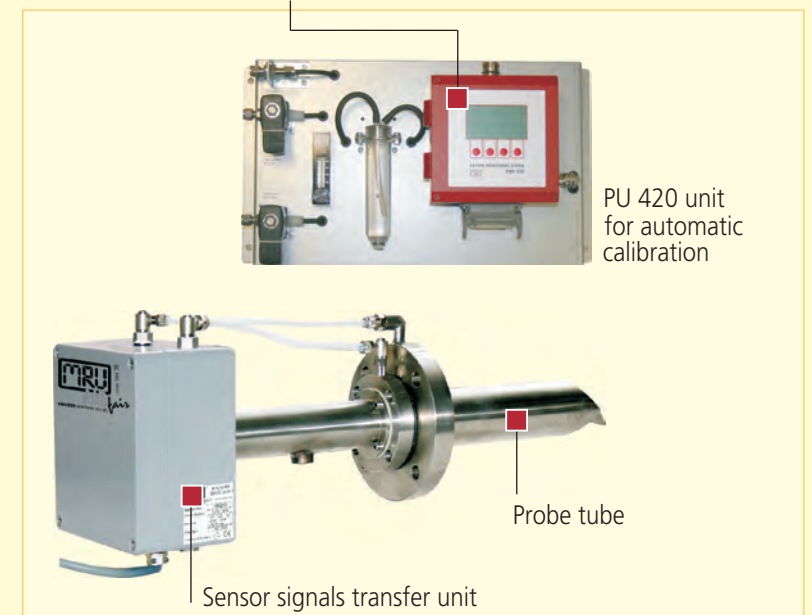
Low cost ZrO₂ probe for clean combustion (low dust)



III. related model TOM 420 R



Control unit with display and keyboard (Model RT)
Model RT (remote transmitter) with separate control and display unit
Model HT (high temperature) with ceramic probe tube and ejector (instrument air)



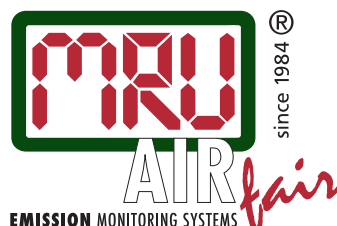
Picture shows model OMS 420 RT

OMS 420 and TOM 420 R

		OMS 420	TOM 420 R
Warm up time	min. 30 minutes	●	●
Measuring range	0,1 ... 25 % Vol.-% O ₂ 0 ... 1.000 ppm CO _e (option combustibles measurement)	●	●
Accuracy	O ₂ : ±0,2 % or ±5 % of reading, whichever is larger CO _e : ±50 ppm or ±10 % of reading, whichever is larger	●	●
Flange	ANSI flange: Ø 230 mm / probe tube: Ø 60 mm, up to max. 4,0 m length or flange DN80 PN16	●	
Flange	DN65 PN6 flange: Ø 216 mm / probe tube: Ø 60 mm, up to max. 4,0 m length or flange DN80 PN16		●
Flange temperature	min. +70 °C ... max. +150 °C (condensation at the flange must be avoided)	●	●
Response time T90	<10 seconds	●	●
Analog outputs	2 x current loop 4 ... 20 mA, with galvanic isolation linearized for both 0 ... 25 % O ₂ and 0 ... 1000 ppm CO _e (user definable settings in 0,5% steps are possible)	●	●
Digital output	galvanic isolated RS 485 (with Modbus protocol)	●	●
Power supply	18 ... 24 Vdc (for model OMS 420), 90 ... 100 W 100 ... 240 Vac (for model OMS 420 RT and HT) max. 100 W	●	
Power supply	18 ... 24 Vdc, 90 ... 100 W		●
Electronic of transmitter	with local microprocessor, display and 4 push-buttons with local microprocessor, display and 2 push-buttons (internal)	●	●
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 °C ... +55 °C	●	●
Enclosure	Die casting aluminium, 160 x 160 x 60 mm and 200 mm probe tube, Ø 50 mm	●	●
Protection class	IP 65	●	●
Weight	3,5 kg (without probe and flange)	●	●

Data subject to change without notice.

Dealer:



EMISSION MONITORING SYSTEMS

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