





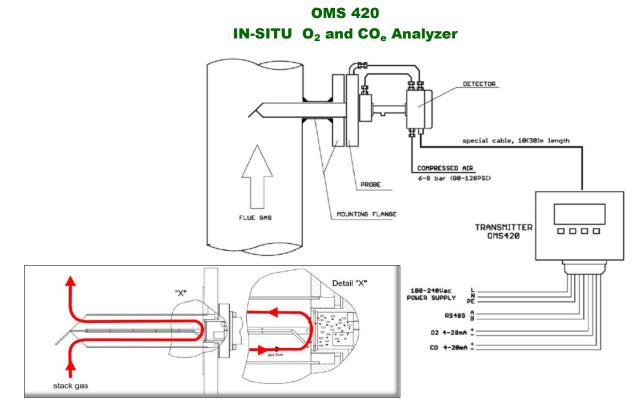
MRU Instruments, Inc.

7902 Horseshoe Circle Humble, Texas 77396 Phone: (832) 230-0155 / Fax: (832) 230-1553 www.mru-instruments.com





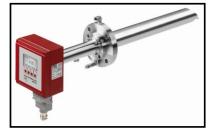
OMS 420 Page: 2 of 4 Price list valid till: 12/31/2024



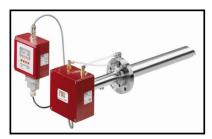
The O2 and COe monitor is dedicated for continuous combustion optimization at various industrial furnaces/ovens/boilers

Instrument main features are:

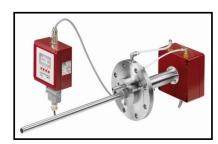
- easy and fast, on site replaceable detector head either with O2 or with dual sensors O2 & COe
- stainless steel SS316Ti mounting flange DN65-PN6,
- Inconel steel tube, with flow guidance design and lengths from 0,3m to 2m (others on special request)
- transmitter (control unit) with backlit display and operation key pad, IP65 die cast aluminum enclosure
- all password protected, intuitive software guided menu, with diagnosis software
- dual channel 4-20mA analog output and digital output RS485 (with Modbus RTU protocol)
- either temperature regulated ZrO2 sensor for continuous O2 oxygen measurement
- or unique , temperature regulated combi-sensor for oxygen and combustible O2&COe measurement
- unique blow-back system for dusty flue gases (for models RT and HT)
- integrated auto-calibration for accurate measurements using PU420 (option)
- 24Vdc power supply of compact model and universal 100-240Vac/47-63Hz/100W power supply for RT and HT models
- industry compatible rugged design IP65 , easy and fastest service design



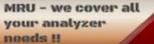
OMS 420 - Compact model



OMS 420-RT model without or with back purge option



OMS 420-HT model





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OMS 420



OMS 420	Page: <i>3 of 4</i>	Price list valid till: 12/31/2024							
OMS 420 Monitor		QTY	Part No.	Unit price	Discount	Total Price			
OMS420 model with compact transm	nitter - select probe tube below	1	110400	\$4,208.00	0%	\$4,208.00			
to monitor clean combustions only				-					
With ZrO2 sensor for <mark>O2</mark> ; 4 – 20 mA & RS485	output; 24Vdc/100W power supply required (client scope of supply)								
Transmitter electronics mounted directly on	to probe. Maximum ambient temperature ≤ 120°F (50°C).								
SAME AS ABOVE - WITH ZrO2 sensor for O2	& COe	1	110401	\$7,367.00	0%	\$7,367.00			
Select according probe tube from below list	:								
OMS 420 RT - Monitor	without BACK PURGE	QTY	Part No.	Unit price	Discount	Total Price			
OMS420RT model with remote trans	mitter without BACK PURGE - select probe tube below	1	110500	\$4,984.00		\$4,984.00			
to monitor clean combustions only			1						
with ZrO2 sensor for O2 and 10m special cab	le between probe and transmitter,								
with 4-20mA analog output and RS485 digita	loutout								

Select according probe tube from below list:					
SAME AS ABOVE - WITH ZrO2 sensor for O2 & COe	1	110501	\$8,144.00	0%	\$8,144.00
including universal power supply 100240Vac/24Vdc/100W					
with 4-20mA analog output and KS485 digital output					

OMS 420 RT - Monitor	WITH BACK PURGE	QTY	Part No.	Unit price	Discount	Total Price
OMS420RT model with remote transmitter WITH BACK PUR	GE - select probe tube below	1	110502	\$5,910.00	0%	\$5,910.00
to monitor dusty combustions (flying ash type of dust)						
with ZrO2 sensor for O2 and 10m special cable between probe and transm	itter,					
with 4-20mA analog output and RS485 digital output						
including universal power supply 100240Vac/24Vdc/100W						
including automatic back-purge of probe tube by use of clean, oil and wate	er free					
compressed air (6-8bar), solenoid valve controlled by transmitter electron	ics					
SAME AS ABOVE - WITH ZrO2 sensor for O2 & COe		1	110503	\$9,038.00	0%	\$9,038.00
Select according probe tube from below list						

Select according probe tube from below list:

PROBES fo	r above n	nodels					QTY	Part No.	Unit price	Discount	Total Price
316Ti stainle	ss steel DN	55 PN6 flang	e. Back purge	ready ≤ 1,100°	F (600°C)						
Inconel steel	DN65 PN6	flange. Back	purge ready	≤ 1,800°F (1000°	°C)						
for use with o	compact mo	del or remot	te transmitter	model, for clea	n or dusty cor	nbustion, with flying ash dust	t type,				
prepared for	back-purgir	ng using com	pressed air (cl	ean, oil and wa	ter free), with	stainless steel DN65 PN6 flar	nge style	e and mount	ing material:		
PROBE DN65	11.81"	~ 0.98'	(300mm)	Inconel Steel	1800°F		1	62393	\$1,278.00	0%	\$1,278.00
PROBE DN65	19.68"	~ 1.64'	(500mm)	Inconel Steel	1800°F		1	62393A	\$1,427.00	0%	\$1,427.00
PROBE DN65	29.52"	~ 2.46'	(750mm)	Inconel Steel	1800°F		1	62393B	\$1,481.00	0%	\$1,481.00
PROBE DN65	39.35"	~ 3.28'	(1000mm)	Inconel Steel	1800°F	$\left(\bigcirc \right)$	1	62393C	\$1,599.00	0%	\$1,599.00
PROBE DN65	49.19"	~ 4.1'	(1250mm)	Inconel Steel	1800°F		1	62393D	\$1,690.00	0%	\$1,690.00
PROBE DN65	59.03"	~ 4.92'	(1500mm)	Inconel Steel	1800°F	0 0	1	62393E	\$1,770.00	0%	\$1,770.00
PROBE DN65	68.87"	~ 5.74'	(1750mm)	Inconel Steel	1800°F		1	62393F	\$1,802.00	0%	\$1,802.00
PROBE DN65	78.71"	~ 6.56'	(2000mm)	Inconel Steel	1800°F		1	62393G	\$1,862.00	0%	\$1,862.00
								•			•
4" ANSI 150lbs a	dapter flange	1					1	63607M	\$1,121.00	0%	\$1,121.00
for use above DI	N65 style sam	oling tubes at si	tes with 4"ANSI-	150lbs flanges							



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OMS 420	Page: 4 of 4		Price lis	12/31/2	12/31/2024		
OMS 420 HT - Monitor		QTY	Part No.	Unit price	Discount	Total Price	
OMS420HT model for high temperature		1	110600	\$7,909.00	0%	\$7,909.00	
with ZrO2 sensor for O2 and remote transmitter,							
probe with sample aspiration using an ejector (cle	an, oil and water free compressed air 6-8bar is required)						
with automatic back-purge using solenoid valve c	ontrolled by transmitter electronics						
with 10m special cable between probe and transr	nitter						
including universal power supply 100240Vac/24	Vdc,						
SAME AS ABOVE - WITH ZrO2 sensor for O2 & C	De	1	110601	\$11,069.00	0%	\$11,069.00	
Select according probe tube from below list:			•	•			

QTY Part No. Unit price Discount **Total Price PROBES for HT Model** Probe tube HT Only for use with OMS420HT model Only for use with OMS420HT model - or use at very high temperature combustion sites above 1800°F (1000°C) with stainless steel ANSI 4" 150lbs flange style, and: 2012°F 64215A \$352.00 0% \$352.00 HT PROBE 19.68" ~ 1.64' (500mm) Inconel steel Ø22 x 2 mm 1 ~ 2.46' 2012°F 64215B \$567.00 0% \$567.00 HT PROBE 29.52" (750mm) Inconel steel **Φ22 x 2 mm** 1 0% HT PROBE 2012°F 64215C \$637.00 \$637.00 39.35" ~ 3.28' (1000mm) Inconel steel Ø22 x 2 mm 1 HT PROBE 59.03" ~ 4.92' (1500mm) Inconel steel Ø22 x 2 mm 2012°F 1 64215E \$757.00 0% \$757.00 HT PROBE 19.68" ~ 1.64' (500mm) Kanthal steel Ф27 x 3,5 mm 2300°F 1 64216A \$2,147.00 0% \$2,147.00 HT PROBE 29.52" ~ 2.46' Kanthal steel Φ27 x 3,5 mm 2300°F 1 64216B \$2,201.00 0% \$2,201.00 (750mm) 2300°F 64216C \$2,211.00 \$2,211.00 HT PROBE 39.35" ~ 3.28' (1000mm) Kanthal steel **Φ27** x 3,5 mm 1 0% ~ 4.92' 2300°F 1 64216E \$2,921.00 0% \$2,921.00 HT PROBE 59.03" (1500mm) Kanthal steel **Φ27** x 3,5 mm ~ 2.46' 3000°F 64217B \$1,897.00 0% \$1,897.00 HT PROBE 29.52" (750mm) Ceramic Φ24 x 2,5 mm 1 3000°F HT PROBE 39.35" ~ 3.28' (1000mm) Ceramic Φ24 x 2,5 mm 1 64217C \$1,909.00 0% \$1,909.00 HT PROBE 59.03" ~ 4.92' (1500mm) Ceramic Φ24 x 2,5 mm 3000°F 1 64217E \$2,108.00 0% \$2,108.00

OPTIONS & ACCESSORIES	QTY	Part No.	Unit price	Discount	Total Price
30m (90') special cable - replacement of standard 10m special cable of models OMS420RT or OMS420HT	1	63471	\$147.00	0%	\$147.00

OPTION PNEUMATIC UNIT PU420		QTY	Part No.	Unit price	Discount	Total Price
PNEUMATIC AUTO CAL PU420	only in combination with RT or HT models	1	110201	\$3,022.00	0%	\$3,022.00
for automatic calibration using permanently attached calibration gas	cylinder					
(calibration gas cylinder with mixture gas is user scope of supply)				-	-	
For automatic calibration - the pneumatic device is placed near to th	e probe - up to 10m distance together with the			101	_	
transmitter electronics and connected with special cable and hose to the probe OMS420RT.						
Instrument air or calibration gas is guided to calibration inlet port of t	he probe.					
The test gas (zero or span) is guided after moistening in the water bu	bblier to the calibration inlet port of probe				CEL Date of	-
detector flange and purging the sensing cells of the transmitter without	out the requirement to dismount				N. COLOR	
the probe from the stack!					Party and	
NOTE: pressure of instrument air and pressure of calibration gas mu	ust be have the			a		-

ame value...approximate 1...2 bar!!!

SPARE PARTS	QTY	Part No.	Unit price	Discount	Total Price
Seal gasket for mounting flange ANSI150	1	61494	\$15.50	0%	\$15.50
Seal gasket for mounting flange DN65	1	52556	\$17.40	0%	\$17.40
Steel mash filter 35 x 2 mm, CrNi steel	1	62440	\$40.70	0%	\$40.70
Lock washer (1.4" x 0.06" (35 x 1.5 mm)	1	62427	\$11.20	0%	\$11.20
Locking plug for calibration inlet port	1	56912	\$32.90	0%	\$32.90
Solenoid valve (back purge)	1	61399	\$209.00	0%	\$209.00
O2 sensor (replacement sensor)	1	11984	\$1,558.00	0%	\$1,558.00
O2 / COe sensor (replacement sensor)	1	13731	\$4,197.00	0%	\$4,197.00



OMS 420



SALES TERMS & CONDITIONS

A. Acceptance/Agreement

All orders are subject to acceptance by MRU Instruments, Inc. Additional or different terms or any attempt by the Buyer to vary, in any degree, any of the terms of this sales agreement form shall be deemed material and are objected to or rejected, but this sales agreement form shall not operate as a rejection of the Buyer's offer unless it contains variances in the terms of the description, quantity, price or delivery schedule of the goods.

B. Payment Terms

MRU Instrumentsqpayment terms are net 30 days unless special written arrangements have been made. MRU Instruments, Inc. may, at any time, suspend performance of any order or require payment in cash, security or other adequate assurance satisfactory to MRU Instruments, Inc. when, in MRU Instrumentsqopinion, the financial condition of Buyer or other grounds for insecurity warrant such action. MRU Instruments, Inc. reserves the right to assess late charges on accounts due past 30 days at the rate of 18% per annum. All goods are shipped Ex Works and are the property of the Buyer upon shipment.

C. Cancellation/Termination

Upon written notice of cancellation or termination for the Buyer's convenience of standard catalog items, for standard product only, the Buyer is subject to a minimum 15% charge on the remaining balance and a charge reflecting a reversion to the quantity pricing of items actually delivered. In the event that the goods are special, non-standard or custom the Buyer may terminate this order in whole or in part for its convenience upon written notice to MRU Instruments, Inc. in which event MRU Instruments, Inc. shall be entitled to termination charges consisting of a percentage of the order price reflecting the percentage of the work performed prior to termination plus actual direct costs resulting from termination.

D. Remedies in the Event of Cancellation or Default

In the event the Buyer cancels this order, or becomes overdue on its account payable to MRU Instruments, Inc. by failing to pay for this order when due in accordance with the terms hereof, in addition to the charges assessed to the Buyer pursuant to Paragraphs B and C of this Agreement, the buyer shall be required to pay all costs of collection, including, whether suit be brought or not, attorney fees, court costs, collection expenses and other expenses which MRU Instruments, Inc. may incur or pay in the prosecution of defense of its rights hereunder whether in judicial proceedings at law or in equity, including bankruptcy court and appellate proceedings, or whether out of court. In addition, MRU Instruments, Inc. or to destroy all copies of the Software upon termination of this Agreement.

E. Delivery

The promised delivery date is the best estimate possible, based upon current and anticipated manufacturing capabilities, of when the product will be shipped. MRU Instruments, Inc. assumes no liability for loss, damages or consequential damages due to delay.

In any event, MRU Instruments, Inc. shall not be in default for any failure to deliver Products to Buyer by the promised delivery date. In the event that MRU Instruments, Inc. so defaults, Buyer's sole remedy for such default shall be cancellation of the applicable order. MRU Instruments, Inc. shall have no other liability to Buyer as a consequence of any such default.

F. Force Majeure

Fulfillment of this order is contingent upon the availability of materials. MRU Instruments, Inc. shall not be liable for any delay in delivery or for non-delivery in whole or in part caused by the occurrence of any contingency beyond the control of either MRU Instruments, Inc. or suppliers to MRU Instruments, Inc. including but not limited to delay in transportation, labor disruption, earthquake, fire, acts of God, or any other act outside of MRU Instruments, Inc.'s reasonable control

G. Warranty

MRU Instruments, Inc. expressly warrants that the materials covered by this sale will conform to the specifications, drawings or other descriptions specified by the Buyer or if none are so specified, to MRU Instruments standard specifications for such material. The materials will be new and unless specified to the contrary on the order acknowledgment or invoice, will be free of all liens and encumbrances.

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H. Claims/Notice of Defects

Failure of the Buyer to object in writing to any merchandise shipped to it by MRU Instruments, Inc. within 30 days after receipt thereof will constitute complete acceptance by Buyer of such merchandise. Rejected material must be returned to MRU Instruments, Inc. within 45 days after receipt and with prior authorization from MRU Instruments, Inc. MRU Instruments, Inc. may (at its option) recondition or replace the rejected material to meet Buyer's specifications within a reasonable time period after receipt. Claims for shipping damage must be made with the carrier.

All products must be returned in the same packing conditions in which it left MRU Instruments, Inc.' manufacturing location(s) (anti-static rails and boxes, adequately protected, etc.). Buyer must pay return shipping.

I. Confidential Information

All drawings, diagrams, specifications and other materials furnished by MRU Instruments, Inc. and identified as confidential, or information which the Buyer knows or has reason to know is confidential, proprietary or trade secret information of MRU Instruments, Inc., relating to the use and service of articles furnished hereunder and the information therein, are proprietary to MRU Instruments, Inc.. Buyer may not reproduce or distribute such materials except to buyer's employees who may use the articles as part of their duties.

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J. General Provisions

Any cause of action arising from this agreement, or breach of it, must be commenced within one year after the cause of action occurs. MRU Instruments, Inc. reserves the right to correct any stenographical or clerical errors in any of the writings issued by it. The terms and conditions of sale and any description on the face of MRU Instruments writings constitute a complete and exclusive statement of the terms and conditions of the sale of the goods by MRU Instruments, Inc. to Buyer unless amended in writing between Buyer and MRU Instruments, Inc. Buyer may not assign any rights to, or delegate any performance owed under the agreement without the written consent of MRU Instruments, Inc.

This Agreement will be governed by and construed in accordance with the laws of the State of Texas. Any suit hereunder will be brought solely in the federal or state courts of Harris County, Texas, and Buyer hereby submits to the personal jurisdiction thereof. This agreement, as amended by any posted notices, constitutes the entire terms and conditions on products offered for sale by MRU Instruments, Inc. MRU Instruments, Inc. may amend this Agreement at any time by posting the amended terms on its web site. Except as stated below, all amended terms shall automatically be effective after they are posted on the web site. This Agreement was last revised on January 30, 2007.

MRU – we cover all your analyzer needs !!

