



DM⁹⁶⁰⁰ CHP

DIGITAL MANOMETERS



PRICE LIST 2024
VALID 04/01 - 12/31/2024

DM 9600 - CHP
Precision - Manometer

Key Features & Functions

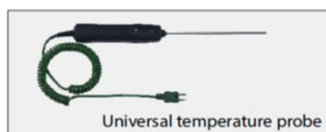
- Electronic, long-term stable pressure sensor for up to 4,2 bars (60 psi)
- Twin K-type (NiCrNi) thermocouple temperature sockets
- Indication in hPa / mbar / bar / psi / mmHg / inchHG / cmH2O / inchH2O
- Temperature indication optionally as °C or °F
- Bluetooth for wireless data transfer to MRU4u app (Android & IOS)
- AUX connector for external pressure transmitter or gas sniffer
- USB interface for cable data transfer and battery charger
- Internal data storage for thousands of measurements!
- High volume data storage to SD card (CSV format)
- Min/Max recording, programable average value
- Automatic and continuously monitoring of pressure/negative pressure
- Stainless steel fast coupling connectors
- Brilliant 2,8" TFT touch display
- Glass-fiber reinforced housing with integrated magnets
- High energy Li-Ion battery, Auto-Off-Function

**Technical Data**

Parameter	Range	Accuracy	Range	Accuracy
Engine inlet pressure	100 ... 200 mbar	± 1 mbar or 1 % reading	40 to 80 inH2O	± 0.4 inH2O or 1 % reading
Boost pressure	1 ... 4 bar	± 1 mbar or 1 % reading	14.5 to 58 psi	± 0.4 inH2O or 1 % reading
Intercooler differential pressure	200 ... 500 mbar	± 1 mbar or 1 % reading	80 to 200 inH2O	± 0.4 inH2O or 1 % reading
Exhaust back pressure	20 ... 200 mbar	± 1 mbar or 1 % reading	8 to 80 inH2O	± 0.4 inH2O or 1 % reading
Carter pressure	0 ... 200 mbar	± 1 mbar or 1 % reading	0 to 80 inH2O	± 0.4 inH2O or 1 % reading
Internal pressure (ext. transmitter)	1 ... 9 bar	± 20 mbar or 1 % reading	14.5 to 130 psi	± 8 inH2O or 1 % reading
Temperature	0 ... 1,000 °C	± 1 °C or 1 % reading	32°F to 1830°F	± 2 °F or 1 % reading
Gas leakage	5 ... 20,000 ppm	NA	5 ... 20,000 ppm	NA
Temperature variation	0 ... 50°C	± 0.5%	32°F to 122°F	± 0.5%

General technical data

Display	2.8" color TFT, touchscreen
Measuring units	mbar/ bar/ hPa/ psi/ mmHg/ inchHG/ cmH2O/ inchH2O
Zero point	automatic
Temperature	two K-type (NiCrNi) sockets
AUX socket	for ext. pressure transmitter and leakage detector
Interfaces	Mini-USB, Bluetooth, IR for printer, µ-SD card
Data storage	internally 10.000 data sets or ext. µ-SD card
Data transfer	to MRU4win PC-software or MRU4u App
Internal power supply	Li-Ion battery for appr. 20h mains free operation
Mains power supply	wall plug USB-charger 100...240 Vac, 50...60 Hz
Dimensions / Weight	3.23" x 6.65" x 1.42" (appr. 0.9 lbs.) 82x169x36mm / appr. 400 g



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 Price list valid till: **12/31/2024**

DM 9600 Digital Manometer	Standard configuration
Electronic, long-term stable pressure sensors for 10bar (150PSI) Double K-type (NiCrNi) thermocouple temperature sockets Indication in hPa / mbar / bar / psi / mmHg / inchHG / cmH2O / inchH2O Temperature indication optionally as °C or °F Bluetooth for wireless data transfer to MRU4u app (Android & iOS) AUX connector for external pressure transmitter or gas sniffer Mini-USB interface for cable data transfer and battery charger Internal data storage for thousands of measurements! Micro-SD card reader High volume data storage to SD card (CSV format) Min/Max recording, programable average value Automatic and continuously monitoring of pressure/negative pressure Stainless steel fast coupling male connectors Brilliant 2,8" TFT touch display Glass-fiber reinforced housing with integrated magnets High energy Li-Ion battery, Auto-Off-Function International wall plug battery charger with USB cable	



DM 9600 CHP SET	(10-BAR) 150 PSI	QTY	Part No.	Unit price	Discount	Total Price
DM 9600 CHP SET	(10-BAR) 150 PSI	1	912224	\$1,781.00	0%	\$1,781.00
including DM9600 manometer as described above, with robust transport case w. foam insert, including external pressure transmitter + 10 bar (150PSI) for oil and water measurements, and quick coupling set (2 pcs of self-lock quick coupler for intake of 6/8mm hose)						

DM 9600 Digital Manometer	10.0 BAR (150 PSI)	QTY	Part No.	Unit price	Discount	Total Price
DM9600-CHP digital manometer 10bar (150PSI)	MANOMETER ONLY	1	912223	\$1,091.00	0%	\$1,091.00

ADDITIONAL MEASUREMENTS - OPTIONS	QTY	Part No.	Unit price	Discount	Total Price
Detector Probe** with handle and 1.95 m cable (without sensor*)	1	11182	\$255.00	0%	\$255.00
Sensor for CH4 leakage detection "HC400"	1	11138	\$179.00	0%	\$179.00
Sensor for CH4 and C3H8 leakage detection "HC401"	1	11591	\$210.00	0%	\$210.00
Sensor for C3H8 and H2 leakage detection "HC402"	1	11733	\$249.00	0%	\$249.00
Sensor for stack moisture test "RM400"	1	11191	\$130.00	0%	\$130.00
Sensor for Indoor climate sensor "HM400" (Humidity, Temperature, Atmospheric Pressure, Dew Point)	1	11922	\$135.00	0%	\$135.00
Sensor for Temperature (IR) "IR400" (contactless infrared)	1	12121	\$223.00	0%	\$223.00
Sensor for Refrigerants "RF400" (CFC, HFCS, HFO)	1	11190	\$295.00	0%	\$295.00
Sensor for CO measurement in ambient air	1	12130	\$280.00	0%	\$280.00
Sensor for CO2 measurement in ambient air	1	12623	\$443.00	0%	\$443.00
LED Lamp - LED 400	1	12698	\$56.30	0%	\$56.30
Calibration adapter kit for gas sniffer, incl. pressure regulator and sensor manifold	1	11769	\$375.00	0%	\$375.00
Sensor manifold only (from above calibration kit)	1	11767	\$54.60	0%	\$54.60

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Price list valid till: 12/31/2024

SOFTWARE OPTIONS and DOCUMENTATION

QTY	Part No.	Unit price	Discount	Total Price
1	10539	\$287.00	0%	\$287.00
MRU4win - "full" version software, for real time data acquisition and handling on PC with Windows10				
NOTE: "light" version is free of charge available on MRU website www.mru.eu				
1	63677	\$373.00	0%	\$373.00
High speed easy paper loading IR printer (to be charged with analyzer charger)				
1	65758	\$23.70	0%	\$23.70
8GB micro-SD card with adapter reader, for storage of high volume measured data				

ACCESSORIES

QTY	Part No.	Unit price	Discount	Total Price
1	61434	\$27.30	0%	\$27.30
Ambient air temperature probe, short plug style / K-type plug directly on analyzer socket				
1	11489	\$81.80	0%	\$81.80
Quick coupling set (2 pcs) of self-lock quick coupler for intake of 6/8mm hose				
1	11348	\$135.00	0%	\$135.00
Stauff pressure hose, 2m length, with Stauff 20/20 (M16x2mm) test fitting to manometer quick coupler				
1	11349	\$135.00	0%	\$135.00
Stauff pressure hose, 2m length, with Stauff 15/15 (M16x1,5mm) test fitting to manometer quick coupler				
1	11352	\$135.00	0%	\$135.00
Stauff pressure hose, 2m length, with Stauff 12/12 (S12,65x1,5) test fitting to manometer quick coupler				
1	11299	\$667.00	0%	\$667.00
External pressure transmitter + 10 bar (150PSI), for oil and water measurements				
1	85001	\$138.00	0%	\$138.00
Universal temperature probe, -100...+250 °C, Ø 4,5 mm, length 150 mm				
1	54873	\$165.00	0%	\$165.00
Thermocouple K contact probe, -50...+650 °C, Ø 15 mm, length 150 mm				
1	85011	\$205.00	0%	\$205.00
Thermocouple K clamp contact probe, -50...+250 °C, pipe Ø up to 60 mm, 2 m cable				
1	85004	\$118.00	0%	\$118.00
Thermocouple K Velcro contact probe, -20...+90 °C, pipe Ø up to 100 mm, 1,5 m cable				

NOTE: other temperature probes on request

STORAGE AND TRANSPORTATION

QTY	Part No.	Unit price	Discount	Total Price
1	10583	\$68.20	0%	\$68.20
ABS Transport case				
1	65699	\$130.00	0%	\$130.00
LARGE Transport case DM9600 for instrument, printer, HC-sniffer probe, ext. pressure transmitter and accessories				

CONSUMABLES

QTY	Part No.	Unit price	Discount	Total Price
1	59465	\$20.20	0%	\$20.20
Printer paper rolls (5 rolls)				



LARGE Transport case # 65699

Transport case # 10583



85004

85011

85001

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 Instruments payment 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 Instruments' opinion, 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. shall retain the right to terminate this Agreement and Buyer's right to use the Software (as term is defined below) upon any material breach of this Agreement by Buyer. Buyer agrees to return to 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

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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.

Customer agrees that it will take all reasonable measures to maintain the confidentiality of all confidential information in its possession or control, which will in no event be less than the measures it uses to maintain the confidentiality of its own information of equal importance. Accordingly, MRU Instruments, Inc. will be entitled to preliminary and permanent injunctive relief and other equitable relief for any breach of this Section I.

Buyer further acknowledges and agrees that the sale of products to Buyer does not convey any license express or implied, and Buyer shall not, manufacture, modify, reverse engineer, duplicate, otherwise copy or reproduce any of the products or any part thereof. MRU Instruments, Inc. will treat drawings, specifications or data furnished by Buyer as confidential, when identified as such, in connection with this purchase.

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 may not be otherwise amended except in a writing signed by Buyer and MRU Instruments, Inc.

This agreement was last revised on January 30, 2007.