edibon

Engineering and Technical Teaching Equipment

Manometers & Multimanometers (several types):

HMM

www.edibon.com
↳PRODUCTS
↳7.- MECHANICS

LRQA CERTIFIED ISO 9001
Certificate of Approval of the Quality Management System

CE
European Union Certificate
(total safety)

UL CSA
UL and CSA Regulations
(All our products are manufactured according to current UL and CSA regulations)

LRQA CERTIFIED ISO 14001
Certificate of Approval of the Environmental Management System

WQC worlddidac
Worlddidac Association Certificate of Membership

INTRODUCTION

Manometers are essential devices used to measure fluid pressure in closed systems. Their primary function is to provide information about the force exerted by a fluid, whether liquid or gas. These instruments are employed across various industries, including manufacturing, automotive, petrochemical, and refrigeration, to monitor and control pressure in different processes. Manometers also play a crucial role in detecting potential issues in hydraulic and pneumatic systems, ensuring efficient and safe operation. Their versatility makes them indispensable tools in industrial, research, and training environments.

GENERAL DESCRIPTION

Thanks to the Manometers & Multimanometers (several types) "HMM" collection designed by EDIBON, a comprehensive and versatile solution is provided with a wide variety of manometers tailored to specific pressure measurement needs. This collection ensures safe and effective operation when measuring pressure in fluids (liquids and gases) in closed circuits.

Manometers measure the difference between actual or absolute pressure and atmospheric pressure, known as manometric pressure or pressure gauges. They compare atmospheric pressure with that of the circulating fluid in the circuit, making them relative pressure gauges.

Manometric pressure is positive for pressures above atmospheric pressure and negative for pressures below it. Absolute pressure is the sum of manometric pressure and atmospheric pressure.

This collection of manometers essential for accurately measuring pressure in various environments and obtaining valuable information when used with other products designed by EDIBON.

HMM-W500. **U-Shape Double Manometer**

GENERAL DESCRIPTION

With the U-Shape Double Manometer, "HMM-W500," designed by EDIBON, the study of different pressures is facilitated for operation with the Pitot tube. The U-Shape Double Manometer allows finding the pressure between two points or two fluids.

The pressure is determined by measuring the difference in the liquid level between the two paths.

SPECIFICATIONS

Bench-top unit.

Anodized aluminum frame and panels made of painted steel.

Main metallic elements made of stainless steel.

This multimanometer has been designed for operating with Pitot' s tube.

It allows finding the pressure between two points or two fluids.

Two U-shape glass manometers, length: 500 mm.

Millimeter precision rules, length: 500 mm.

Three points for pressure measurement.

Manuals: This unit is supplied with the following manuals: Required services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices manuals.

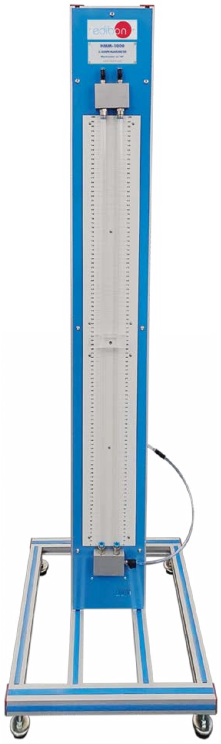
DIMENSIONS AND WEIGHTS

- Dimensions: 250 x 500 x 870 mm approx.
  (9.84 x 19.68 x 34.25 inches approx.)
- Weight: 3 Kg approx.
  (6.61 pounds approx.)

REQUIRED ELEMENTS (Not included)

- Pitot's tube.

HMM-U1000. **U-Shape Manometer**



GENERAL DESCRIPTION

The U-Shape Manometer, "HMM-U1000," designed by EDIBON, allows the study of various pressures and their relationship with the fluid. It measures the difference in liquid level in its columns, providing vital information for pressure analysis in different situations.

SPECIFICATIONS

Designed for wall assembly.

Anodized aluminum frame and panels made of painted steel.

Main metallic elements made of stainless steel.

U-shape manometer, length: 1000 mm.

Millimeter precision rules, length: 1000 mm.

Upper collector.

Lower collector.

Drain valve.

Manuals: This unit is supplied with the following manuals: Required services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices manuals.

DIMENSIONS AND WEIGHTS

- Dimensions: 170 x 40 x 1400 mm approx.
  (6.69 x 1.57 x 55.11 inches approx.)
- Weight: 2 Kg approx.
  (4 pounds approx.)

HMM-I1000. **Inclined Multimanometer with 20 manometric tubes of 250 mm length**

GENERAL DESCRIPTION

The Inclined Multimanometer with 20 manometric tubes of 250 mm length, "HMM-I1000," designed by EDIBON, allows measuring and comparing pressures at different points or fluids simultaneously. This facilitates the detailed analysis of pressure variations in various situations, providing valuable information to understand fluid behavior in complex systems. Additionally, it enables precise and comparative measurements in different scenarios, making it useful for applications in research, education, etc.

SPECIFICATIONS

Bench-top unit.
Anodized aluminum frame and panels made of painted steel.
Main metallic elements made of stainless steel.
Inclination: 30° approx.
Twenty manometric tubes, length: 250 mm.
Tubes inner diameter: 8 mm, to avoid bubbles.
Water tank for filling.
Twenty points for differential pressure measurement, with key.
Common collector.
Drain valve.
Millimeter precision rules, length: 250 mm.
Manuals: This unit is supplied with the following manuals: Required services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices manuals.

DIMENSIONS AND WEIGHTS

- Dimensions: 1400 x 1400 x 700 mm approx.
  (55.11 x 55.11 x 27.55 inches approx.)
- Weight: 10 Kg approx.
  (22 pounds approx.)

HMM-V500. **Multimanometer with 8 manometric tubes of 500 mm length, vertical position**

GENERAL DESCRIPTION

The Multimanometer with 8 manometric tubes of 500 mm length, vertical position, "HMM-V500," designed by EDIBON, is a multimanometer designed to accurately measure and analyze pressure variations in vertical configurations. It provides valuable data to understand fluid behavior in various environments.

SPECIFICATIONS

Bench-top unit.
Anodized aluminum frame and panels made of painted steel.
Main metallic elements made of stainless steel.
Vertical position.
Eight manometric tubes, length: 500 mm.
Tubes inner diameter: 8 mm, to avoid bubbles.
Air pump for pressurization.
Eight points for differential pressure measurement, with key.
Common collector.
Non-return valve.
Drain valve.
Millimeter precision rules, length: 500 mm.
Manuals: This unit is supplied with the following manuals: Required services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices manuals.

DIMENSIONS AND WEIGHTS

- Dimensions: 300 x 500 x 870 mm approx.
  (11.81 x 19.68 x 34.25 inches approx.)
- Weight: 4 Kg approx.
  (8 pounds approx.)

HMM-V500-12. **Multimanometer with 12 manometric tubes of 500 mm length, vertical position**

GENERAL DESCRIPTION

The Multimanometer with 12 manometric tubes of 500 mm length, vertical position, "HMM-V500-12," designed by EDIBON, allows for precise measurement and analysis of pressure variations in vertical configurations, providing valuable data to understand fluid behavior in various environments. With a greater number of tubes, it allows for more pressure comparisons at different points where measurements are desired.

SPECIFICATIONS

Bench-top unit.
Anodized aluminum frame and panels made of painted steel.
Main metallic elements made of stainless steel.
Vertical position.
Twelve manometric tubes, length: 500 mm.
Tubes inner diameter: 8 mm, to avoid bubbles.
Air pump for pressurization.
Twelve points for differential pressure measurement, with key.
Common collector.
Non-return valve.
Drain valve.
Millimeter precision rules, length: 500 mm.
Manuals: This unit is supplied with the following manuals: Required services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices manuals.

DIMENSIONS AND WEIGHTS

- Dimensions: 400 x 500 x 870 mm approx.
  (15.74 x 19.68 x 34.25 inches approx.)
- Weight: 5 Kg approx.
  (11 pounds approx.)

HMM-4B. **4 Bourdon type Manometers Unit**

GENERAL DESCRIPTION

The 4 Bourdon type Manometers Unit, "HMM-4B," designed by EDIBON, stands out for incorporating Bourdon-type gauges for precise pressure measurements in fluid systems. This unit enables a detailed analysis of pressure variations at multiple points simultaneously.

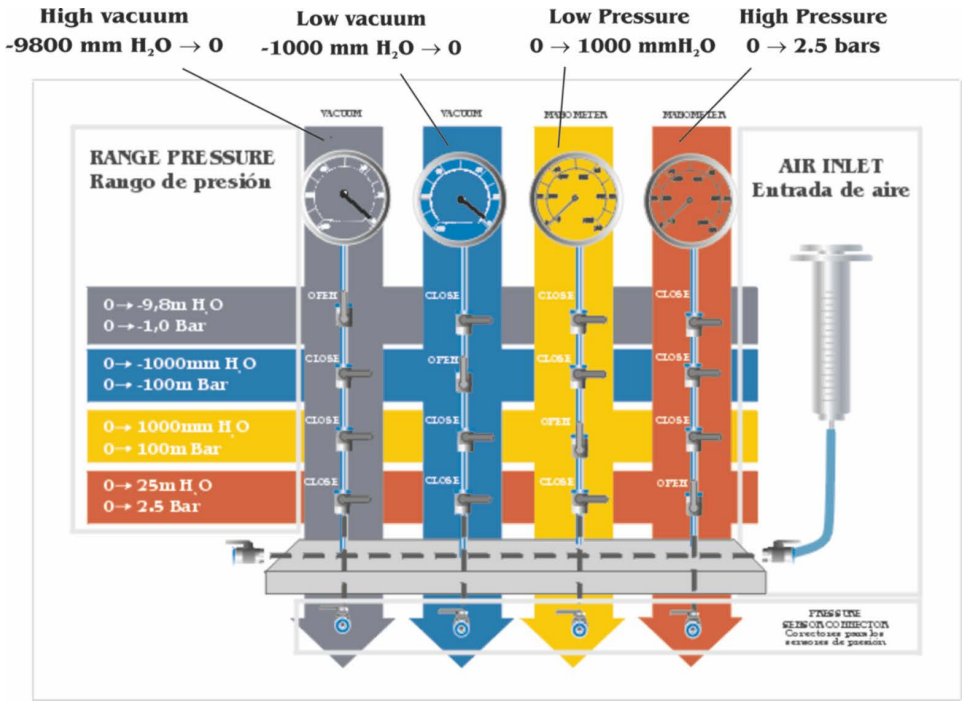
SPECIFICATIONS

Bench-top unit.
Anodized aluminum frame and panels made of painted steel.
Main metallic elements made of stainless steel.
Diagram in the front panel with distribution of the elements similar to the real one.
Vacuum-meter, range (-9800 [mmH_2O] – 0).
Vacuum-meter, range (-1000 [mmH_2O] – 0).
Manometer, range (0 – 1000 [mmH_2O]).
Manometer, range (0 – 2.5 [bar]).
Mobile Piston (syringe).
Eight valves.
Non-return valve.
Polyurethane tubes.
This system is supplied with atm, bar, psi, mmHg, mmH_2O, conversion tables.
This system allows the calibration of six sensors (same type) simultaneously.
Manuals: This unit is supplied with the following manuals: Required services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices manuals.

DIMENSIONS AND WEIGHTS

- Dimensions: 720 x 300 x 570 mm approx.
  (28.34 x 11.81 x 22.44 inches approx.)
- Weight: 15 Kg approx.
  (33 pounds approx.)

PROCESS DIAGRAM AND UNIT ELEMENTS ALLOCATION FOR HMM-4B



✱ Specifications subject to change without previous notice, due to the convenience of improvement of the product.

C/ Julio Cervera, 10. Móstoles Tecnológico.
28935 MÓSTOLES. (Madrid). ESPAÑA - SPAIN.
Tel.: 34-91-6199363 Fax: 34-91-6198647
E-mail: edibon@edibon.com Web: **www.edibon.com**

Edition: ED01/25
Date: January/2025

REPRESENTATIVE: