

SERIES MA2 DIGITAL MANOMETER



DESCRIPTION

This hand-held manometer is a compact, bi-directional, battery-operated digital manometer with excellent sensitivity and stability down to 0.001" of water column (or 0.1 Pascal). The sensing element is a Modus proprietary highly sensitive differential capacitance cell, designed to operate at extremely low pressures. This sensing element has been used for many years in other Modus pressure transmitters and has proved very reliable. This sensing element is used for pressures below 1.00 inch of water column. Pressures greater than 1 inch of water are sensed by the latest silicon based technology.

The Modus digital manometer is an ideal instrument for HVAC test and balance work, furnace draft measurement, clean room or paint spray booth differential pressure measurement and other specialized low differential pressure measurement applications. All units are provided with a 10-point N.I.S.T. Calibration Certificate.

To enhance the versatility of the manometer, an accessory kit or individual accessories may be ordered separately to fit specific applications.

SPECIFICATIONS

General

Pressure ranges are available in English or metric units, see Reference Table C

Performance

Resolution: See Reference Table C

Accuracy: $\pm 1/2\%$ of range plus 1 digit

Position sensitivity: less than 2.5% of range

Environmental

Operating temperature range: 0°C to 50°C (32°F to 122°F)

Storage temperature range: -20°C to 70°C (-4°F to 160°F)

Electrical Connections

Low battery indicator: The symbol "BAT" appears on the display

Battery: One 9 Volt alkaline

Battery life: 200 hours (may be operated for another 20 hours without loss of accuracy after the first appearance of the "BAT" symbol on the display)

Physical

Standard accessories: Instruction card and 9V battery

Connections: Metal fittings for 3/32" or 3/16" (2.5 or 5mm) I.D. flexible tubing. Display: LCD, .5" digit height

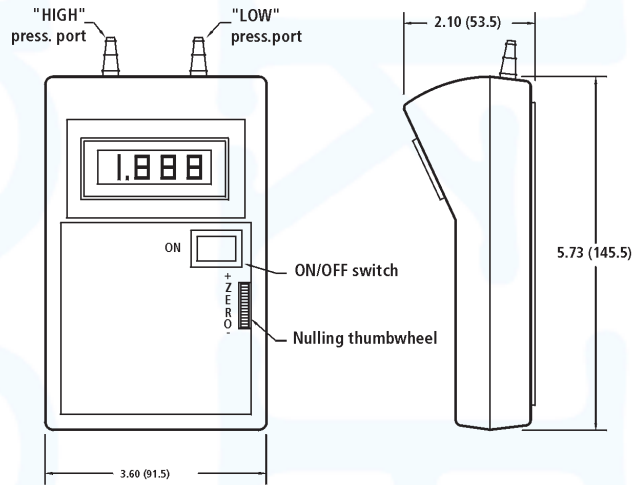
Operating medium: Air or non-corrosive non-explosive gases only

Maximum momentary pressure limit: Refer to Reference Table C

Controls: ON/OFF switch and thumbwheel for exact nulling of display

Physical dimensions: See outline drawing

Weight: 0.63Lb (285g)



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)

ACCESSORIES

The accessories are:

Part Number and Description

SD-015	Surge Damper with 15 second time delay
SD-030	Surge Damper with 30 second time delay
SD-060	Surge Damper with 60 second time delay
KT1	Accessory kit *(see below for description)
A-4001	Carrying case (9.5"x13"x5.5")
A-303	Static pressure tip with magnetic mounting clip
A-344	Insertion tube
A-2011	10 Ft length of 3/16" I.D. rubber tubing
A-3001	Stepped straight connector for tubing size from 3/32" to 3/16" I.D. (2.5 mm to 5 mm I.D.)
A-3002	Stepped "Y" connector for tubing size from 3/32" to 3/16" I.D. (2.5 mm to 5 mm I.D.)
166-6	6" Pitot tube
160-12	12" Pitot tube**
160-18	18" Pitot tube**
160-24	24" Pitot tube**
160-36	36" Pitot tube**
160-48	48" Pitot tube**
160-60	60" Pitot tube**

** These Pitot tubes will not fit in the standard carrying case.

* The KT1 accessory kit consists of: (1) carrying case (with storage compartment for the digital manometer), (1) 6" Pitot tube, (2) static pressure tips, (1) insertion tube, (2) 5 Ft lengths of rubber tubing, (2) stepped straight connectors, (2) stepped "Y" connectors.

ORDERING INFORMATION

Order Number (See Table below and Reference Table C on page 26)

MA2 - PR

EXAMPLE: MA2 - 01E

PR = Pressure Range
(See Reference Table C)

Enter the 3 digit code
from Standard
Pressure Range - Table C

