APM 135

PRESSURE

METER



Detecting Gas Saving Lives

OPERATING

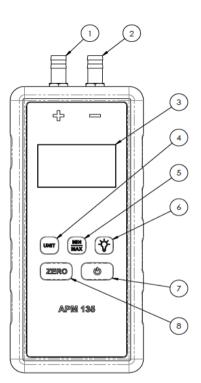
INSTRUCTIONS

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- Positive pressure input spigot
- 2. Negative pressure input spigot
- 3. Backlit 4-digit LCD screen
- Pressure units selection button
- 5. Min/Max mode selection button
- 6. LCD backlight on/off button
- Power button
- Zero pressure button

INSTRUMENT APPLICATION

This instrument is not suitable for use with corrosive substances or cyclic hydrocarbons, e.g. motor oil, transmission fluid and Freon. To use the APM 135 with these components, isolation must be provided in the form of a buffer, such as a mineral oil or dry air.

INSTRUMENT OPERATION BATTERIES

Indicates full battery level.

Indicates low battery level and batteries require replacing.

Insert 3 AA batteries.

ON / OFF

Press and hold button for 0.5s to turn on.

Press and hold button for 2s to turn off.

Automatic switch-off after 5 minutes, unless any button is activated or the pressure level is above 1 mbar

BACKLIGHT

Press to button to turn backlight on/off.

OUT OF RANGE

If the pressure exceeds the positive scale range Out will appear on the display.

If the pressure exceeds the negative scale range -Out will appear on the display.

ZEROING

In order to achieve maximum accuracy it is recommended to zero the instrument in the orientation it will be used before taking any measurements.

Ensure both ports are open to atmosphere, and then press the **ZERO** button which will adjust the reading to zero.

UNITS OF PRESSURE

Press UNIT button to select required units of pressure. Chosen units will be saved when the instrument is switched off.

MIN/MAX

The MIN/MAX operation is used to record the maximum pressure level, minimum pressure level and the difference between the minimum and maximum pressure levels.

The first press of the **MIN/MAX** button displays the maximum pressure recorded. The **MAX** icon is shown on the display

The next press of the **MIN/MAX** button displays the minimum pressure recorded. The **MIN** icon is shown on the display.

The next press of the MIN/MAX button displays the difference between the minimum and maximum pressure. The MAX-MIN icon is shown on the display. The next press of the MIN/MAX button returns to the standard pressure display.

Pressing the ZERO button when either MAX, MIN or MAX-MIN displays are shown, only resets the current MIN and MAX values. It does not zero the current pressure reading.

Example:

Input pressure is 20 mbar, MIN mode selected then press ZERO button. MIN mode shows 20 mbar, MAX mode shows 20 mbar, MAX-MIN mode shows 0 mbar. During 3 minute wait pressure initially increases to 20.2 mbar then drops to 18.8 mbar. MIN mode shows 18.8 mbar, MAX mode shows 20.2 mbar, MAX-MIN mode shows 1.4 mbar.

BATTERY REPLACEMENT

- Remove the protective rubber boot by slipping it away from the bottom of the case and sliding it over the pressure spigots exposing the case back.
- Remove the battery cover from the bottom of the case by removing the four screws.
- Remove the three AA batteries and replace with good quality AA Alkaline batteries taking care to install them the right way round.
- Replace the battery cover carefully making sure it is alligned properly and replace the screws. Take care not to over tighten the screws otherwise it may damage the case.
- For best results and longer life always use quality alkaline batteries MN1500 or equivalent.

CAUTIONS

Exposure to silicone based products, corrosive gases, water / condensation and freezing should be avoided at all times as this will cause damage to the sensor and internal component corrosion.

This instrument should not be stored or operated outside of its operating temperature range.

Particular care must be taken not to exceed the maximum pressure ratings for the device as this may rupture the sensor membrane. This is not covered by the manufacturer's warranty.

NOTE: The differential/gauge instruments will only measure positive pressures i.e. positive pressure applied to positive port, or negative pressure applied to the negative port.

WARRANTY

This instrument is guaranteed against defects of workmanship and materials for a period of twelve months from date of invoice.

During the warranty period a defective instrument will be repaired or replaced at the discretion of the manufacturer. This warranty does not cover damage or failure due to misuse or accident. Modification, adjustment or any alteration shall void the warranty.

For any warranty claims to be considered the instrument must be returned to Anton along with proof of purchase at the senders cost.

FCC Compliance

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

STANDARD ACCESSORIES

The APM 135 is supplied complete with:

- Three AA Alkaline batteries
- · Operating instructions
- Protective rubber boot

SPECIFICATIONS

3 x AA Alkaline Batteries
> 100 hours*
Continuous. Auto switch off after 5 mins.
-10 to +50 °C
360 grams including batteries
185 x 75 x 37 mm
±2% of reading

^{*} Using recommended Industrial batteries

Units	APM 135
mbar	-39.99 to +19.99
	+20.0 to +130.0
PSI	-0.29 to +1.89
mmHg	-15.00 to +19.99
	+20.0 to +98.1
mmH₂O	-199.9 to +199.9
	+200 to +1336
inH₂O	-8.03 to +52.63
hPa	-39.99 to +19.99
	+20.0 to +130.0
Pa	-400 to 9999
kPa	-1.99 to 13.00