

INTELLIGENT MESSEN!
MEASURE WITH INTELLIGENCE!

ecom[®]

English



OPERATION MANUAL

ecom[®] UNO

Intended Use

The ecom-UNO is suitable for measuring the positive, negative and differential pressure of gases. It is particularly suitable for work on heating, ventilation and air conditioning systems. The measuring range covers pressures from -200 hPa to +200 hPa.

Scope of Delivery

- ecom-UNO 200 hPa
- 2x 1.5 V AA Batteries
- Protective bag (option)

General Safety Instructions



WARNING

Magnetic Field

The magnetic field can cause pacemakers to malfunction in their impair.

Operation of the ecom-UNO by persons with pacemakers is prohibited.



WARNING

Hazard of Injury

Improper work on incinerators can cause injuries.

Work on incinerators may only be done by qualified specialists.



CAUTION

Damage to the Sensor

Pressures greater than specified will destroy the sensor.

Do not use ecom-UNO to measure higher pressures.



CAUTION

Damage of the Electricity

Moisture or frost can damage the electronics.

Do not store the unit in moist rooms or at sub-zero temperatures.



CAUTION

Damage of the Sensors

Substances containing solvents damage the device's sensors.

Avoid contact with substances containing solvents.

Device Description



1	Connection Overpressure	4	Battery Capacity	7	HOLD Key
2	Connection Depression	5	Cursor	8	Setting Key
3	Display	6	Pressure Units	9	ON/OFF

Magnetic Holder

The ecom-UNO has a magnetic holder on the back, with which the device can be attached to most metal surfaces.



WARNING

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Initiation/Measurement

1. Connect the hoses.
2. Switch on the device.

NOTICE

ecom-UNO carries out a segment test when switched on. It starts in the lower measuring range and is ready to measure after 3 s.



Segment test



ready to measure

Operations

Automatic Switch-off

- ecom-UNO switches off after 5 min, with values ≤ 0.01 hPa/mbar.
- ecom-UNO switches off after 15 min, for values > 0.01 hPa/mbar.

Display Damping

- The display damping can be set from 1 (weak damping) to 9 (strong damping) (see setup).

Zero Point Correction

- The zero point correction is used to compensate the zero point drift after switching on the instrument (see setup).

Range Switch

- If the pressure of 0.5 hPa/mbar is exceeded, the ecom-UNO automatically switches to the higher measuring range.
- Resolution from 0.001hPa/mbar to 0.01 hPa/mbar and from 0.01 hPa/mbar to 0.1 hPa/mbar.

Range Overload

- If the measuring range of -200 hPa to +200 hPa is exceeded 4 lines appear on the display.

Set Zero Point

- Press the setting key.

Unit Switch

- Hold down the setting key.
- The cursor for the set printing unit moves from unit to unity.
- Release the setting key at the desired unit.

Scan of the Maximum and Minimum Value

1. Press the HOLD key.
 - Measured values are "frozen" and the value at the time the key is pressed is displayed.
2. Press the HOLD key twice.
 - Minimum value, smallest value since switching on the device, is displayed.
3. Press the HOLD key 3 times.
 - Maximum value, the highest value since the device was switched on, is displayed.
4. Press the HOLD key 4 times.
 - ecom-UNO is in measuring mode again.
5. Hold the HOLD key.
 - Minimum and maximum values are deleted.

Change Batteries

NOTICE

The two 1.5 V AA batteries must be replaced when the battery capacity indicator flashes.

1. Open the lid of the battery compartment.
2. Remove used batteries.
3. Replace batteries with new batteries.
4. Slide the cover onto the battery compartment.

Setup

Settings can be made in the setup menu. To do this, press the ON/OFF key for about 3 seconds after switching on the unit.

The following functions can be set:

Number	Value	Function	Factory Setting
0	0 – 1	1 = Set to Factory Setting	0
1	0 – 90	Automatic Switch-off	15
2	1 – 9	Display Damping	3
3	0 – 1	1 = with Zero Correction	1

- Select a function with the ON/OFF key.
- Setting is made with the HOLD and the setting key.
- Press and hold the ON/OFF key for about 3 seconds to exit the setup menu.

Technical Data

Measurement Range	200 hPa
Resolution	0.01 hPa
Overload	300 hPa
Accuracy	±1 % of the MBE
Ambient Temperature	0 °C – 40 °C
Storage Temperature	-20 °C – 70 °C
Batteries	2x 1.5 V AA
Power Supply	20 mA
Size	106 mm x 64 mm x 28 mm
Weight	150 g

NOTICE

Subject to technical changes! (Status 11.2019)

Maintenance

To ensure the accuracy of your measuring device, we recommend an annual inspection by an authorised ecom partner. In case of heavy use, shorter inspection intervals should be chosen – please contact your ecom partner.

Disposal



- Dispose of used batteries at the designated collection points.
- Dispose of packaging material in an environmentally friendly manner.
- Old devices must be disposed of in an environmentally friendly manner by an authorised centre.

NOTICE

On request we take back old appliances and dispose of them in an environmentally friendly way.

Consumables/Spare Parts

NOTICE

You can find consumables or spare parts in our webshop at www.shop.ecom.de.

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