INTELLIGENT MESSEN!
MEASURE WITH INTELLIGENCE!

English

OPERATION MANUAL

ecom® *UNO*

Version
ecom-UNO

Status January 2023

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

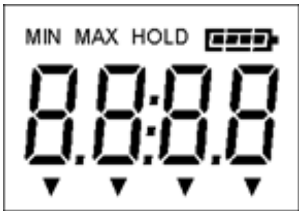
Magnetic Field
The magnetic field can cause pacemakers to malfunction in their impair.
Operation of the ecom-UNO by persons with pacemakers is prohibited.

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

Technical Data	
Measurement range	200 hPa
Resolution	0,01 hPa
Overload	300 hPa °C
Accuracy	1 % of the MBE
Ambient Temperature	0 °C – 40 °C
Storage Temperature	-20 °C – 70 °C
Batteries	2 x 1,5 V AA
Power Consumption	20 mA
Size	106 mm x 64 mm x 28 mm
Weight	150 g

NOTICE
Subject to technical changes! (Status 01.2023)

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.

EG-Konformitätserklärung | EC Declaration of Conformity

Hiermit erklärt der Hersteller
The manufacturer

ecom GmbH
Am Großen Teich 2
D-58640 Iserlohn, Germany

in alleiniger Verantwortung für die Ausstellung dieser Erklärung, dass die nachfolgend aufgeführten Produkte:
hereby declares under its sole responsibility, that the products

Druckmessgeräte / pressure measurement devices

Type: ecom-UNO

ecom-DP

ecom-DP Engine

ecom-DP3

allen einschlägigen Bestimmungen der folgenden EU-Richtlinien entsprechen:
comply with the following European Directives:

2014/30/EU	**EMV-Richtlinie / *EMC Directive***
2011/65/EU	**RoHS**

Folgende Normen wurden angewendet:
The following standard/s were used:

EN 61000-6-2:2005/AC:2005	EMV – Störfestigkeit für Industriebereiche *EMC – Immunity for industrial environments*
EN 61000-6-3:2007/A1:2011	EMV – Störaussendung für Wohnbereich, Geschäfts- und Gewerbebereiche sowie Kleinbetriebe *EMC - Emission standard for residential, commercial and lightindustrial environments*
EN IEC 63000:2018	Technische Dokumentation zur Beurteilung von Elektro- und Elektronikgeräten hinsichtlich der Beschränkung gefährlicher Stoffe *Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances*

Iserlohn, 25.07.2022

Matthias Platte (Geschäftsführer / *Managing Director*)

Declaration of Conformity

The manufacturer

ecom GmbH
Am Großen Teich 2
D-58640 Iserlohn, Germany

hereby declares under its sole responsibility, that the products

Pressure measurement devices

Type: ecom-UNO

ecom-DP

ecom-DP Engine

ecom-DP3

are in conformity with the relevant statutory requirements of the following enactments:

Electromagnetic Compatibility Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (RoHS)

The following designated standards were used:

EN 61000-6-2:2005/AC:2005	EMC – Immunity for industrial environments
EN 61000-6-3:2007/A1:2011	EMC - Emission standard for residential, commercial and light industrial environments
EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Iserlohn, 12.10.2022

Matthias Platte (Geschäftsführer / *Managing Director*)

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