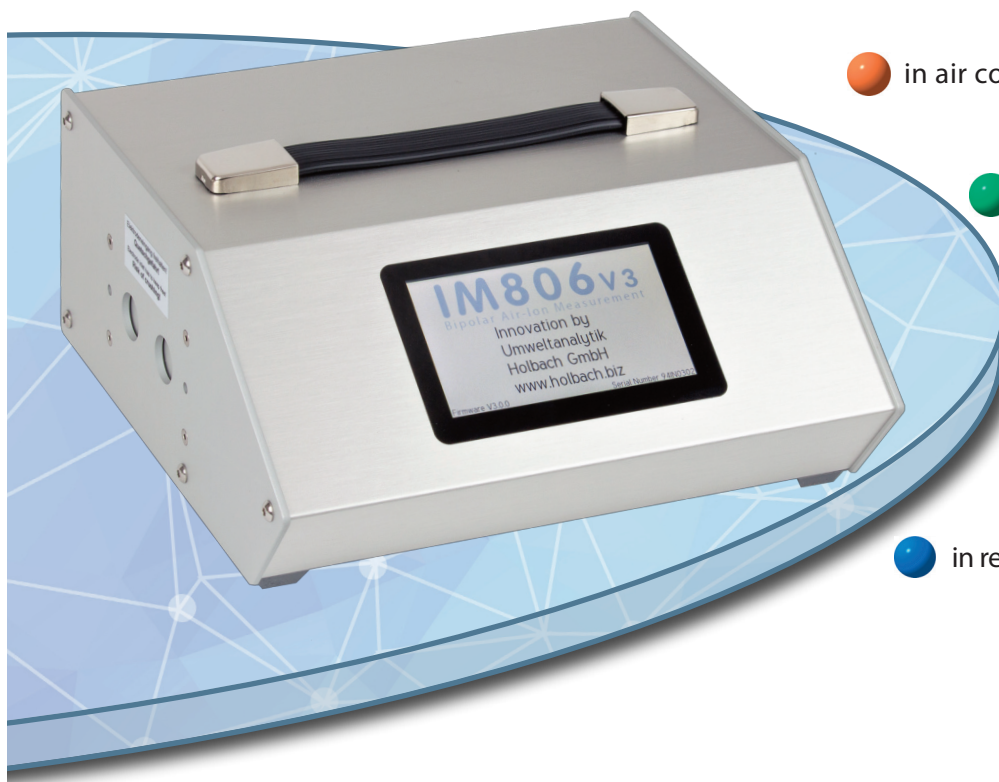# Ionometer **IM806v3**

Data sheet

▶ Simultaneously measuring positively and negatively charged air ions

● in air conditioning technology

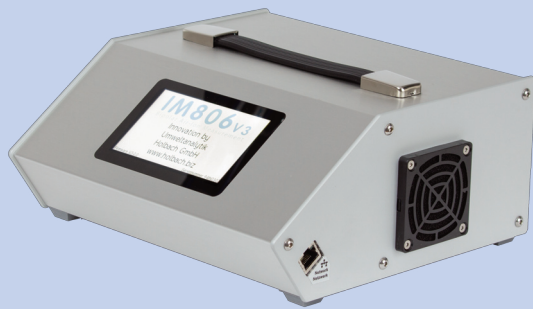● in medical technology

● in industry

● in building biology

● in research and development

Technical data

Measuring system	Open measuring system without absorbent parts and with two electrodes arranged in parallel for simultaneous recording of negatively and positively charged air ions with an ion mobility of 1.3 cm²/Vs (small ions) and faster
Flow rate of sampling air	24.5 l/min per channel, via integrated fan, approx. 1.8 m/s at inlet
Measuring ranges	Eight measuring ranges from 0 ... 1,000 Ions/cm³ up to 0 ... 40,000,000 Ions/cm³ Automatic measuring range switchover
Zero-offset adjustment	Manually and automatically at definable time intervals
Warm-up time	Minimum: 30 seconds, typical: 15 minutes
Measurement display	Numeric display and graphical representation on illuminated colour display
Display and operation	Illuminated 4.3-inch-colour display (109 mm) with touch panel
Climate data	Integrated air pressure sensor, optional temperature / humidity sensor attachable
Storage of measurements	Ion measurements (min., average and max. value), air pressure, temperature*, humidity*, device state onto integrated microSD memory card in CSV format. Data transfer via integrated FTP server and PC software IMControl for Microsoft Windows 7 and higher (included in delivery). * with optional temperature / humidity sensor HC2A-S
Analog outputs	One output per channel 0 ... 10 VDC / 0 ... 20 mA, lower and upper limits definable. Both outputs are galvanically isolated from the measuring device. Voltage output: minimum input resistance of follow-on device: 10 kOhm Current output: maximum load resistance of follow-on device: 400 Ohm
Battery operation	Integrated lithium polymer battery (up to 15 hours operating time)
Charger	100 to 240 Volt AC, charging current max. 2A
Device connections	Charging socket, 4 mm socket for discharging electrical static fields, USB port (Type A), USB port (Type mini-B), RS232 (9-pos. SubMinD socket), analog output (9-pos. SubMinD plug), connector for rotronic temperature / humidity sensor HC2A-S, network port (RJ45)
Ambient temperature	Temperature: 0 ... 45 °C, humidity: 25 ... 90 % rel.H., non-condensing
Network services	Web server, FTP server, remote control
Data storage	Internal 1GB microSD memory card, optional external USB memory stick
Dimensions / Weight	246 mm x 108 mm x 226 mm (W x H x D) / 3080 g
Housing / Tripod sockets	Anodised aluminium profile housing / UNC 1/4 inch (photo) and UNC 3/8 inch (microphone)
Warranty	24 months (limited to 12 months for battery and servo drive)

Made in Germany – Quality by Umweltanalytik Holbach GmbH
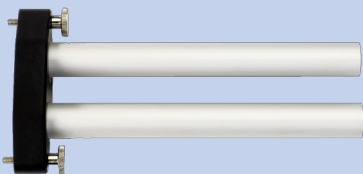
The Ionometer IM806v3

The **IM806v3** is compact and portable.

The rear view of the IM806v3

The connection sockets, apart from the network socket, are mounted recessed in the rear panel.

Optional accessories for the IM806v3

Screw-on extension tube for directed measurements

Temperature / humidity sensor HC2A-S
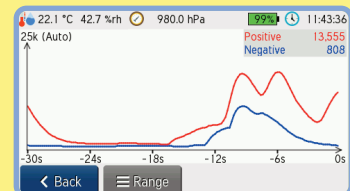
Handling case for IM806v3

Optional robust handling cases (systainer T-Loc III) are available for the transport of the **IM806v3** with PE foam cut outs suitable for charger, grounding cable and extension tube. The handling cases are connectable among each other and available in sapphire, anthracite and light gray.
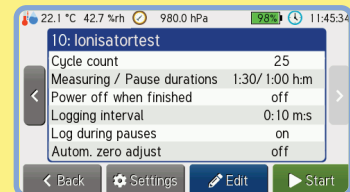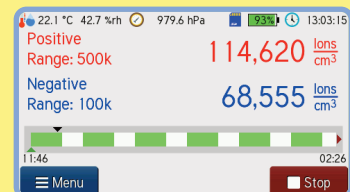
Details that matter!

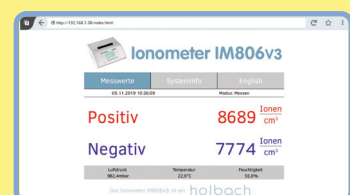All relevant data is displayed in the illuminated display by the **IM806v3** during sampling.

Measurement value output of the **IM806v3** can be displayed in a line chart in real time.

Up to 10 sequences (measurement / pause, number of cycles, etc) are freely definable.

The current state of the sequence is displayed as block graphic.

A web and FTP server are integrated in the ionmeter **IM806v3**. Measurements and configuration can be viewed via network.

Ordering information (delivery includes: **IM806v3**, charger, manual, PC software, USB cable, grounding cable)

Configuration / Accessory	Article no.	Handling case for IM806v3	Article no.
IM806v3	01-023	Light gray body, handle and blue catch	01-252
Screw-on extension tube, length: 190 mm (7.5 inches)	01-026	Anthracite body, handle and catch	01-257
Temperature / humidity sensor rotronic HC2A-S	01-332	Sapphire body, red handle and red catch	01-258