

- VOC
- CO₂
- CO
- NO₂
- SO₂
- O₃
- °F / °C
- %RH



INDOOR AIR QUALITY & ENVIRONMENTAL MONITORING

Sauermann Portable Indoor Air Quality & Environmental Monitoring Systems



Product overview

Si-AQ & Environmental Monitoring Instruments



Si-AQ Comfort



Si-AQ Expert



Si-AQ Pro



DBM 620



Si-AQ VOC



AMI 310

Our Indoor Air Quality (IAQ) product line offers professionals the ability to accurately, simultaneously, and instantaneously measure anywhere from 1 to 7 gases of ones choosing, while remaining lightweight, portable, and user friendly.



Indoor air quality monitors

Sauermann Portable Indoor Air Quality Monitoring System

The Sauermann Group has developed a series of four portable indoor air quality monitoring instruments that offer all the functionality and convenience a professional air quality technician needs.

- **Si-AQ Comfort:** Entry-level model IAQ monitor for measurement of CO₂, CO, temperature and relative humidity IAQ
- **Si-AQ VOC:** Expandable, handheld monitor for detection of Volatile Organic Compounds (VOCs) and other harmful gases
- **Si-AQ Pro:** Handheld instrument for testing indoor air quality in homes, offices and other light industrial settings (up to 3 gases)
- **Si-AQ Expert:** Portable IAQ Monitor with up to 7 gases sensors for testing indoor air quality in warehouses, office buildings, and other industrial settings





**REAL-TIME Continuous
Data Logging**



**Wireless Communications
with Bluetooth®**



Active Internal Sampling Pump



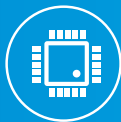
**PC Software and
USB Included**



**Barometric Air Pressure,
Ambient Temperature,
% Relative Humidity**



**Light Weight, Durable and
Easy-to-Transport Design**



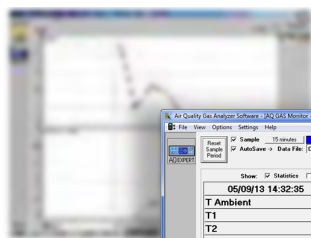
Large Internal Memory



Li-Ion Rechargeable Battery



Easy to Use Menu System



	Current	Min	Avg	SD	Max	Units
05/09/13 14:32:35	78.2	78.1	78.39	0.1	78.5	F
T Ambient	NA	No Cal	No Cal	NA	NA	F
T2	NA	No Cal	No Cal	NA	NA	F
O2	0.1	0.1	0.1	0.	0.1	%
CO	0	0	0.	0.	0	PPM
CO2	552	471	566.77	20.2	598	PPM
NO	0	0	0.	0.	0	PPM
NO2	0	0	0.	0.	0	PPM
NOx	0	0	0.	0.	0	PPM
TM	0	0	0.	0.	0	PPM
	998	998	998.	0.	998	mbar
DPR	53.1	52.6	52.9	0.2	53.5	%
DPH	59.7	59.5	59.7	0.1	60.1	F
WBT	66.3	66.2	66.32	0.1	66.6	F
O3	0	0	0.	0.	0	PPB
VOCs	0	0	0.	0.	0	PPB



Si-AQ PCSoft
PC software

- Real-time continuous data logging for graphs, maximum, minimum, and averaging for all Indoor Air Quality parameters
- Alarms settings for every air quality parameter including recording the time duration that alarms have been exceeded
- Variety of saving and printing options
- Wireless communications with Bluetooth®

Technical information

Si-AQ monitors



Si-AQ Comfort



Si-AQ Pro



Si-AQ VOC



Si-AQ Expert

% Relative Humidity, Dew Point, Wet Bulb	Optional	✓	✓	✓
Ambient Temperature Measurement	✓	✓	✓	✓
Differential Pressure Measurement	✓	✓	✓	✓
Barometric Pressure Measurement	Optional	✓	✓	✓
Real-Time Data Logging Software	Optional	✓	✓	✓
Continuous Sampling Pump	✓	✓	✓	✓
Internal Memory	2,000 Tests	2,000 Tests	2,000 Tests	2,000 Tests
Wireless Bluetooth® Printer	Optional	Optional	Optional	Optional

Gas Sensor Options

Upgradeable: Includes Up to Three (3) Gas Sensors	-	✓	✓	-
Upgradeable: Includes Up to Seven (7) Gas Sensors	-	-	-	✓
O ₂ (0 - 25 %)	-	Optional	Optional	Optional
CO ₂ (0 - 5,000 ppm)	✓	Optional	Optional	Optional
CO (0 - 200 ppm)	Optional	Optional	Optional	Optional
H ₂ S (0 - 100 ppm)	-	Optional	Optional	Optional
TVOC's (0 - 20,00 ppb OR 0 - 200 ppm)	-	-	✓	Optional
Formaldehyde (0 - 10,000 ppb)	-	Optional	Optional	Optional
NO (0 - 250 ppm)	-	Optional	Optional	Optional
NO ₂ (0 - 20 ppm)	-	Optional	Optional	Optional
SO ₂ (0 - 20 ppm)	-	Optional	Optional	Optional
O ₃ (Ozone: 0 - 5 ppm)	-	-	-	Optional

* CO, CO₂, Temp & %RH Only

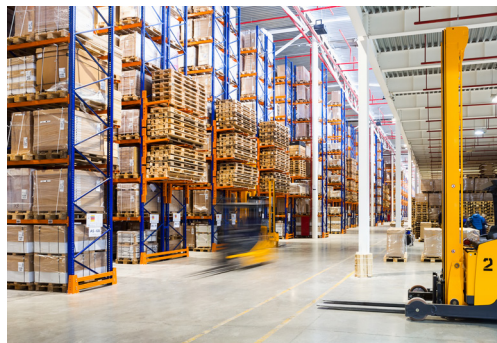
* Add Up to 3 Gas Sensors

* TVOC Sensor Included, Add Up to 2 More Gas Sensors

* Add Up to 7 Total Gas Sensors

No matter what industry you work in, Sauermann IAQ Monitors deliver the data you need to get the job done:

- Industrial Hygiene
- Environmental Health and Safety (EH&S)
- Indoor Air Quality Specialists
- Universities
- Laboratory and Research
- Incubators
- Volatile Organic Gases (VOC) Monitoring
- Medical and Hospitals
- Mining/Confined Spaces
- Warehouse Safety: Emissions and Air Quality Issues
- Greenhouses
- Building Inspecting & Commissioning
- Energy Auditing
- Fugitive Emissions
- General IAQ
- Air Balancing





Environmental monitors

Sauermann Portable Environmental Monitoring Instruments

The Sauermann Group has developed a series of portable environmental monitoring instruments that offer all the convenience and functionality a health and safety professional needs.

- **50 / 100 Series:** New generation of portable devices designed for simple measurements of CO, CO₂, Temperature, Humidity, Velocity, and Moisture in the field.
- **Solarimeters:** Provides analysis of sunshine for immediate, short and long- term periods.
- **Luxmeters:** Handheld meter designed to measure illuminance in foot candles or lux.
- **AMI310:** Simultaneously measures parameters including pressure, temperature (Pt100 and thermocouple), humidity, air quality (CO/CO₂), air velocity, airflow (vane probes and hotwire), and tachometry using wired and wireless probes.
- **DBM620:** Newly redesigned multipurpose electronic air balancing instrument primarily used for efficiently taking direct air volume readings from air vents.



Humidity

Class 50/110

HD 50 / 110

- 3 to 98 %RH
- -40 to 356°F (-40 to 180°C)
- -58 to 176°F (-50 to 80°C)
- CO: 0 to 500 ppm
- CO₂: 0 to 5,000 ppm



Pin Moisture Meter

Class 50

HM 50

- Hold function
- Compatible with 4 types of materials: wood, plaster, brick and concrete
- Supplied with 2 extra pin sets and a protective cap



CO / CO₂ Meter

Class 50/110

CO 50 / 110 / AQ110

- CO: 0 to 500 ppm
- CO₂: 0 to 5,000 ppm
- -40 to 356°F (-40 to 180°C)
- 3 to 98 %RH



Light /Luxmeter

Class 100/200

LX 100 / 200

- Light measurement
- 0.1 to 200,000 lux
- Data exportation software



Air velocity / Airflow

Class 50/110



VT 50

- Hotwire probe
- Hold function
- 0.49 to 98 ft/s (0.15 to 30 m/s)
- 32 to 122°F (0 to 50°C)



LV 50

- Integrated Ø100 mm vane probe
- Hold function
- 0.98 to 114 ft/s (0.3 to 35 m/s)
- 32 to 122°F (0 to 50°C)



LV 110 / 111 / 117

- Ø14 mm, Ø70 mm, Ø100 mm vane probes
- Hold/Min/Max functions
- Airflow and Airflow with cones
- Self-acting average
- Detection of flow direction (Ø70 mm and Ø100 mm vanes)
- 0.98 to 114 ft/s (0.3 to 35 m/s)
- 32 to 122°F (0 to 50°C)

LV 130

- Integrated Ø100 mm vane probe
- Hold/Min/Max functions
- Airflow and Airflow with cones
- Self-acting average
- Detection of flow direction
- 0.98 to 114 ft/s (0.3 to 35 m/s)
- 32 to 122°F (0 to 50°C)

VT 110 / 115

- Hotwire and telescopic hotwire
- Hold/Min/Max functions
- Airflow and Airflow with cones
- Self-acting average
- 0.49 to 98 ft/s (0.15 to 30 m/s)
- 32 to 122°F (0 to 50°C)



Wide range of measuring cones for vane and hotwire probes.



Airflow meter

Airflow / Air velocity / Pressure

Supplied with
CALIBRATION
certificate



Calculation functions and autonomous micro-manometer

DBM 620

A solution for airflow commissioning and balancing, DBM 620 can be used on any supply or exhaust, air distributors: rectilinear, helical and toric.



Measuring range from
1236 to 150,087 ft³/h
(35 to 4250 m³/h)



Switch between hoods
quickly and easily



Hoods flow straightener
Compatible with all air vent types



SmartKap mobile App
Data reading & exploitation



Patented folding frame
& space-saving hoods
storage



Transport case: compact
storage system

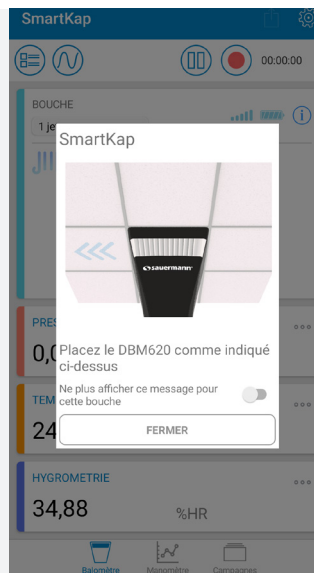


NEW

Remote velocity grid

Designed for air velocity measurements on any type of large ceiling vent or diffuser.

- Average air velocity from 24 points
- Telescopic and articulated pole: maximum length 80 in (2.05 m), 0 to 90° positioning strut
- Backpack



Multi-function

Class 310

AMI 310

AMI 310 is a multi-probe instrument which can measure up to 6 parameters simultaneously.

- ± 500 Pa / $\pm 2,500$ Pa / $\pm 10,000$ Pa
- ± 500 mbar / $\pm 2,000$ mbar
- Thermocouple: -328 to 3200°F (-200 to $1,760^{\circ}\text{C}$)
- Pt 100: -328 to 1112°F (-200 to 600°C)
- Humidity: 3 to 98 %HR
- CO: 0 to 500 ppm
- CO₂: 0 to 5,000 ppm
- Air velocity: -16 to 114 ft/s (-5 to 35 m/s)
- Airflow: 0 to 3,531,431 ft³/h (0 to 99,999 m³/h)
- Gas detection: 0 to 10,000 ppm
- Tachometry: 30 to 60,000 rpm



Wireless probes



Data processing software



Graphical display



Interchangeable probes & modules



Micro-SD card



Color wide screen

Probes & modules available

Vanes & Hotwires

Temperature

Hygrometry

Multifunction

Tachometry



Modules

4 channels thermocouple
Climatic conditions

Solar power

Solarimeters / Pyranometers

SL 100

- Measurement and spot check of solar power
- Calculation of energetic exposure
- Results saved when instrument is switched off
- Hold/Min/Max functions
- 1 to 1300 W/m²
- 1 Wh/m² to 500 kWh/m²
- Supplied with calibration certificate



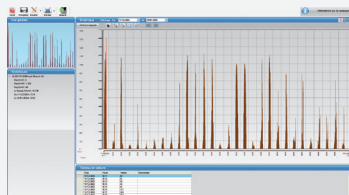
**Waterproof
Solar cell**

SL 200

- Measurement and spot check of solar irrigation (instantaneous, average, time-recording)
- Calculation of energetic exposure
- Storage and saving of average values of power
- Recorded datas can be read on the display, and the graphic function allows a fast interpretation of the measured file
- Hold/Min/Max functions
- 1 to 1300 W/m²
- 1 Wh/m² to 500 kWh/m²
- Supplied with calibration certificate



Accessories For solarimeters



LSL 200 (SL 200 only)

Configuration, download and data processing software of stored instrument data



Fixing kit

For solar panels



Tripod

For SL 100 and SL 200

Services

Calibration / Hotline / Maintenance



Customer service experts

For any repair, calibration or device feedback requests, contact us today!



Accessible
24/7

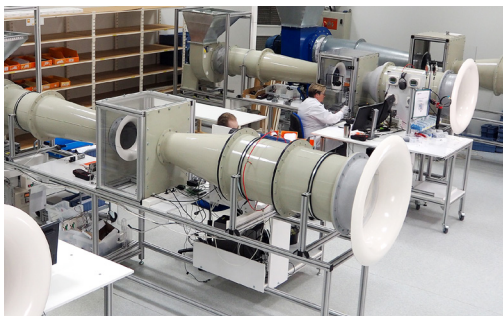


Fast and
easy-to-use



Follow-up in
real time

www.e-inst.com/contact



To complement our range of measuring instruments, a team of more than 40 people offers a wide range of services, such as calibration and adjustments, after-sales support, hotline, on-site services and training.

Our team of experts will accompany you throughout your project and will adapt to your needs thanks to more than 40 years of experience and our sophisticated laboratory equipment.



Calibration and
adjustments



After-sales
services



Hotline



On-site services



Training

Our laboratories, spanning over 16,000 sqft, allow us to offer you all kinds of metrological services related to:

- Temperature
- Humidity
- Air velocity
- Air flow
- Pressure
- Gases (VOC, CO, FMH, O₃, SO₂, H₂S, NO₂, etc.)
- Weighing
- Radiometry
- Tachometry
- Light measurement
- Electrical current



Built with Quality In Mind



**Indoor Air Quality
Monitors**



**Condensate Removal
Solutions**



HVAC Instruments



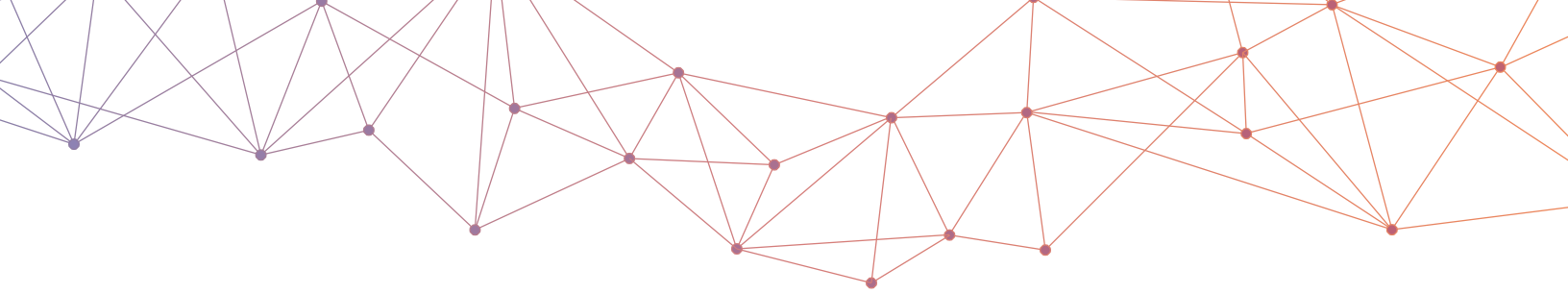
Combustion Gas Analyzers



**Industrial Emissions
Analyzer**



Digital Manifolds



More information
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