

A 190

The Honold A190 is the powerful leading edge system for air sampling at high flow rates. It is simple to use and is designed for multi-purpose use of e.g. sampling of PCB, PAH, Dioxins and Furans as well as air-transported contaminants like dust, fibers, germs, spores and aerosols – Easy done with the A190!

The A190 is manufactured using the latest Sensor and chip design and its fully integrated and optimized functionality enable easy operation, high accuracy and data consistency and provide top quality and safety as well as cost efficiency. Accurate thermal mass flow sensing and two alternative flow modules cover a large flow range for precise measurement reaching from 5.0 to 50/90 standard liters per minute. Automatic flow control and stop functionality, specialized data memory functions, auto seal test and pc interface make the A190 a powerful tool – easy to use under all working conditions. More A190-benefits that improve easy operation and reliable results are its intuitive workflow guidance and rugged design.

The A190 can be individually adjusted by different standard conditions of temperature and pressure, flow rate, sampling volume, sampling period and instant or time-delayed start up only by keypad/LCD. After parameterization and start of the sampling, constant flow control and automatic stop functionality at target volume or time make accurate measurements easy and time-saving. Adjustment of flow rate after the sampling started and temporary interruption of measurement by keypress enable flexible response to acute changes of sampling conditions. No need to abandon sampling and start a new one. After achieving the target volume/time the sampling is stopped automatically and the data memory routine is started. Up to 50 datasets can be saved in the internal memory and subsequently transferred to a PC.



Practical! – Easy! – Beneficial!

Advantages of the Honold A190

- Thermal mass flow sensor for precise flow and volume measurement.
- Easy parameterization by keypad/LCD of:
 - Different standard conditions of temperature and pressure (STP) as ATP/ NIST (20 °C, 1013 hPa), DIN/ IUPAC (0 °C, 1013 hPa) as well as fully individual conditions in temperature and pressure.
 - Flow rate from 5 to 50 or 5 to 90 standard liters per minute.
 - Sampling volume from 1 to 99'999.9 standard liters per minute.
 - Sampling time from 1 minute up to 999:59 hours.
 - Time delay for start-up of measurement up to 23:59 hours.
- Adjustment of flow rate and temporary interruption of measurement by keypress.
- Constant flow control, silent operation and automatic stop functionality at target volume/time.
- Display of the actual values of flow rate, sampling volume/time and negative pressure.
- Automatic internal memory for up to 50 datasets.
- Automatic data-saving at power failure.
- Delivery including cable loom, shoulder belt, pc-kit, operation manual and calibration report.

Honold Quality & Safety Standards strive for top quality and leading edge products offering you safety and peace of mind. All 'Honold Umweltmesstechnik' products fully comply with the international and german rules and regulations of ISO, EN, DIN and VDI. Maintenance, consulting, quality control and logistics services complement our products, including.

Technical Data

Flow measurement:	Thermal mass flow controller, pressure- and temperature-independent.
Sampling flow range:	5 - 50 / 5 - 90 standard liters per minute (SLPM) at adjustable standard conditions of temperature and pressure (STP) as ATP/ NIST-conditions (@ 20 °C, 1013 hPa), DIN/ IUPAC-conditions (@0 °C, 1013 hPa) or user-related fully individualized conditions. Automatic constant flow control!
Sampling volume:	1-99'999.9 standard liters.
Sampling time:	1 minute to 999:59 hours (i.e. programmable sampling duration)
Differential pressure:	0 to -520 hPa differential negative pressure, abandonment of sampling at >2 min. undershooting.
Temperature range:	5 - 40 °C media temperature, 5 - 45 °C ambient temperature.
Humidity range:	0 - 90 % r.H., non condensing.
Operating voltage:	200-240 VAC / 47-63 Hz, power consumption max. 0,4 kW. Other voltages on request!
Data memory:	Data storage capacity up to 50 records, consisting of values of stp-reference, sampling volume/ sampling time, flow rate, starting time, duration, differential negative pressure and status.
PC-interface:	Serial interface including connector cable (RS232). USB-adaptor on request!
Dimensions:	Length 50 (19") x width 22 x height 45 cm.
Weight:	Approx. 13-18 kg (varying by configuration, excl. accessories)
Special functions:	Auto seal test including recording in system data memory. Time-delayed start up to 23:59 hours in advance. Automatic data-saving at power failure.

Options and Accessories

Flow modules:	A190-50-module with flow range 5.0 - 50.0 standard liters per minute at DIN/ IUPAC-conditions. A190-90-module with flow range 5.0 - 90.0 standard liters per minute at DIN/ IUPAC-conditions. (Special models, additional flow ranges and flow range extensions on request)
Filters, Adapters, hoses:	Measurement and filter heads, adapters and connectors, hoses and connectors according to customer's specification on request.
Telescopic Stand:	Telescopic stand for ambient air measurements, lightweight design (nickel plated steel), including clamps for mounting of filter heads and adapters (suction height max. 1.5 m).
Plugging Stand:	Modular plugging stand with quick connectors for ambient air measurements. Lightweight design (anodized aluminum), including clamps for downward mounting of filter heads and adapters (suction height 1.5 m).

Excited?! Talk to us!