

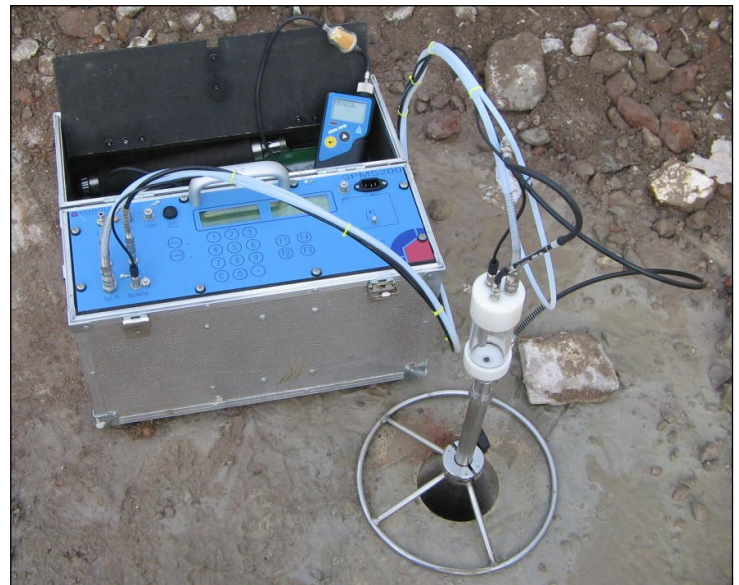
# G200-X

***THE leading edge system for soil and waste disposal gas measurements!***

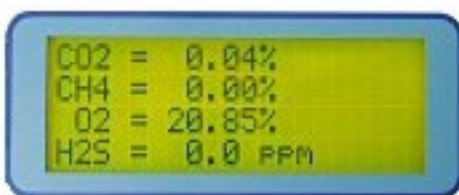
**The Honold G200-X** is a unique and powerful gas sampling and measurement device. Its fully integrated and optimized functionality offers dual channel sampling and multi-channel gas measurement supported by a robust well bore packer.

## Five benefits that improve your results:

- ✓ Up to four integrated gas sensor modules for e.g. CO<sub>2</sub>, CH<sub>4</sub> and Alkanes, O<sub>2</sub> and H<sub>2</sub>S aligned in a measure-while-sample array.
- ✓ Microprocessor controlled sampling routine enabling precise inflow volumes and optimized sample quality.
- ✓ Automatic, sensor controlled flow rates, gas density correction.
- ✓ Ultimate customer care through application hotline and technical service.
- ✓ Compliance with German and international measurement regulations (cf. ISO 10381-7, ISO/IEC 17025, VDI 3865-2, LABO/§18).



**Easy to handle, it provides accurate data faster!**



Latest sensor and chip technology, intuitive workflow guidance and a rugged design enable increased sample throughput, accuracy and data reliability – every day, under all working conditions.

## High performance features are

- Fit-for-purpose sampling programs with microcontroller steering the fast and precise execution of sampling and analysis.
- Real time display of sample and measurement data with specialized data memory functions.
- Dual channel sampling system for automated sampling sequences.
- Honold-ACM System: innovative CO<sub>2</sub>/O<sub>2</sub> auto constant measurement for optimized borehole-evacuation and starting time of sampling.
- *AQUASTOP*, the latest Honold innovation, preventing water inflow.

# G200-X

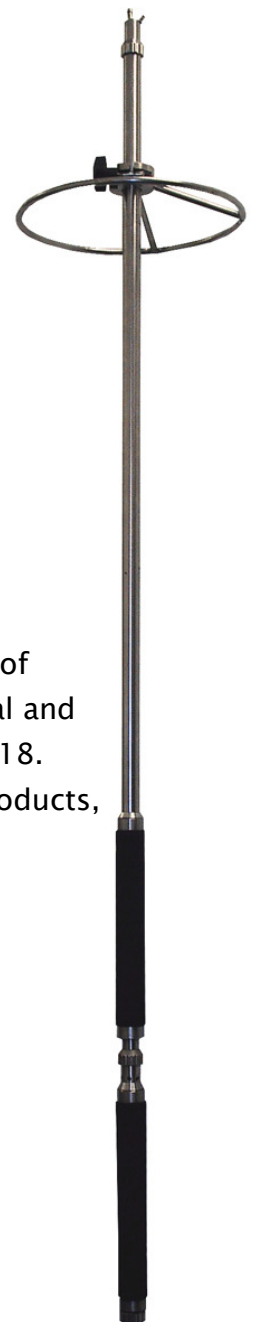
## High standard sampling through

- Large sampling flow range: 0.3 to 10 slpm.
- Constant flow control with automatic stop functionality at target volume.
- Automatic measurement routines for all common applications (adsorbents, vials...)
- Real time display of sampling and analysis for full quality control on two LCD screens.
- Data memory for 50 samples (standard) with PC interface.
- Auto Seal Test for easy identification of leakages of sampling system
- Aquastop system preventing the inflow of water in tough sampling conditions



## Twinpak eSet: Integrated borehole packer-system

- High-performance soil-gas extraction for gas sampling at landfill sites and contaminated grounds.
- Packer probe for isolation and detailed sampling of selected soil intervals.
- Aquastop sensor preventing water inflow
- Water- and dust-separator
- Auto seal test for easy identification of leakages of the packer-system
- Any gas-sampler and -analyzers connectable



## Honold Quality & Safety Standards

We 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, VDI, OFD-H/BAM as well as LABO/§18. Maintenance, consulting, quality control and logistics services complement our products, including.

*Excited? Talk to us!*

## Technical Data

<b>Flow measurement:</b>	Thermal mass flow controller, pressure- and temperature-independent.
<b>Sampling flow range:</b>	0.3 – 10 standard liters per minute (Air @ 0 °C and 1013 hPa). Automatic constant flow control!
<b>Sampling volume:</b>	0.1 – 9999.9 standard liters.
<b>Differential pressure:</b>	up to –300 hPa in the gas-measurement mode, up to –500 hPa in the sampling mode.
<b>Temperature range:</b>	5 – 40 °C media temperature, 5 – 45 °C ambient temperature.
<b>Humidity range:</b>	0 – 90 % r.F., non-condensing.
<b>Operating voltage:</b>	Internal lead-acid-battery providing up to 6 h of continuous operation. Memory-effect-free charging, 230 VAC- and 12 VDC-external battery Operation (cable set inclusive).
<b>Gas sensor CO<sub>2</sub>:</b>	Infrared-gas sensor module for measuring 0.1–50 %vol. carbon dioxide, display range 0.01–100 %vol.
<b>Gas sensor CH<sub>4</sub>:</b>	Infrared-gas sensor module for measuring 0.1–50 %vol. methane/alkenes, display range 0.05–100 %vol.
<b>Gas sensor O<sub>2</sub>:</b>	Electrochemical gas sensor module for measuring 0.2–25 %vol. oxygen, display range 0.01–25 %vol.
<b>Gas sensor H<sub>2</sub>S:</b>	Electrochemical gas sensor module for measuring 1–100 vppm hydrogen sulfide, display range 0.1–100 vppm
	Other gas sensor modules on request – talk to us!
<b>Gas measuring mode:</b>	Continuous operation measuring mode of gas concentration including storage of gas data. Flow rate @ 0.5 l/min., $p_{diff,max}=300$ hPa.
<b>Threshold control mode:</b>	Continuous operation control mode for monitoring of typical threshold values, similar to EX/OX/TOX-control.
<b>Data memory:</b>	Data storage Capacity up to 50 records, consisting of values of sampling volume and flow, gas sensor data, starting time, duration, status and information on additional functions (e.g. packer pressure).
<b>PC-interface:</b>	RS232-interface including cable for easy data download.
<b>Wellbore packer:</b>	Stainless steel wellbore packer probe with rugged design, including filtering module with <i>AQUASTOP</i> -functionality, 1m- and 2m-extended module and accessories. Compressor for automatic packer inflation on up to 0.25 MPa normal operation pressure ( $p_{max}$ at 0.5 MPa). Inner diameter of metering point-/borehole from 40 to 70 mm (standard = 50 mm). Fully automatic routine for easy leakage testing.
<b>Dimensions:</b>	Length 52 x width 22 x height 44 cm (G200-X excl. wellbore packer)
<b>Weight:</b>	Rd. 18 kg (extended kit G200-X, incl. accessories, without wellbore packer).