



QUALITY CONTROL EQUIPMENT



UNDERSTANDING
QUALITY.

FOODANDBEVERAGE.PENTAIR.COM

THE SECRET INGREDIENT FOR THE PERFECT PINT

Your customers might not know what goes into crafting the perfect pint, but it all starts on the brewery floor.

Quality control parameters, such as CO₂ and O₂ content, turbidity, foam stability, and pasteurization, are integral to the outcome of your beer, so choosing the right quality control equipment is important.

You want to get it right the first time, ensure your beer upholds its stability and shelf life and not run the risk of costly batch wastage.

Pentair® Haffmans™ Quality Control Equipment has been crafted from over 75 years of continuous innovation and market expertise. Our range of quality control devices provides comprehensive measurement across the beer production line, from brewhouse to the laboratory.

Insist on Pentair Haffmans Quality Control Equipment, the secret ingredient for the perfect pint of beer.

O₂ AND CO₂ MEASUREMENT

O₂ Gehaltemeter, type o-DGM

Determines the dissolved oxygen (DO) content, the O₂ content in gases and the TPO in a package (Uhlig method).

CO₂/O₂ Gehaltemeter, type c-DGM

Measures the dissolved CO₂ content, DO content, O₂ content in gases and the TPO in a package (Uhlig method).

CO₂ Gehaltemeter

Determines the dissolved CO₂ content and comes in different executions to meet the requirements of your application:

- Intelligent CO₂ Gehaltemeter, type i-DGM
- Analog CO₂ Gehaltemeter, type GMT

Inpack TPO Meter, type TPO

Automatically determines the total O₂ content by measuring the DO and the headspace O₂ content of the packaged product in a single measurement.

Inpack TPO/CO₂ Meter, type c-TPO

Determines the DO, headspace O₂ and total O₂ content of the packaged product. In addition, the c-TPO measures CO₂.

Inpack TPO/CO₂ Meter, type c-TPO Selective

The automatic Inpack TPO/CO₂ Meter, type c-TPO Selective, offers Selective CO₂ Measurement using Henry's Law in combination with optical technology.

Automator

Automatically measures all relevant quality parameters directly in the filled package in a single measurement cycle. In addition to the basic parameters O₂ and CO₂, the system can be extended for further analysis to meet customer requirements.

Inpack 2000 CO₂ Device

Manually determines the dissolved CO₂ content in carbonated beverages filled in bottles or cans and comes in different executions:

- Inpack 2000 CO₂ Calculator, type ICC
- Inpack 2000 CO₂ Meter Digital, type ICD

Inpack 2000 Air Meter, type IAM

Determines the air content in the headspace and the total air content of the package.

CO₂-Selector

For non-invasive CO₂ measurement in the filled package. Measures the headspace CO₂ content and internal pressure, and accurately determines the dissolved CO₂ content in the package. No product piercing required.

Oxy-2Go - NEW!

A portable device for measuring the complete range of dissolved oxygen (DO) content in beer wort, beer, or other carbonated beverages.

FOAM MEASUREMENT

Nibem Foam Stability Tester, type Nibem-TPH

Measures the foam collapsing time.

Inpack 2000 Sampling Device, type ISD & ISD 2.0

For sampling from bottles or cans. Samples can be supplied to various measuring devices for analysis purposes.

Sample Bottle Filler, type SBF

For sampling beverages from tanks, pipes or kegs without air intake.

Inpack 2000 Flasher Head, type IFH

A flashing device for the creation of reproducible foam for the Nibem foam quality analysis, to be used in combination with the ISD or SBF.

TURBIDITY MEASUREMENT

Turbidity Meter, type Vos Rota 2.0

An easy-to-use and reliable instrument to measure turbidity during production and after filling. It has a measuring range of up to 500 EBC/34,600 ASBC, which makes the instrument suitable for a wide range of beer types, including very turbid beers.



c-DGM



Oxy-2Go

NEW



CO₂-Selector



Automator



Nibem-TPH



MONITORING OF PROCESSES

PASTEURIZATION

Redpost PU Monitor

Monitors the pasteurization process of beer and beverages as it travels through the pasteurizer tunnel. PU's are automatically calculated and displayed. Available in three executions:

- Type RPU-353
- Type RPU-352
- Type RPU-351

Redpost Charger/Interface

Charges PU Monitor and enables data transfer from the Monitor to a PC or printer and comes in two executions:

- Type RPC-80, compatible with all Redpost PU Monitors
- Type RPC-50, compatible with PU Monitors type RPU-120*, RPU-351/352/353

BOTTLE & KEG WASHING

Bottle Monitor, type BTM

Evaluates the washing process in each compartment of the bottle washer, based on the time, temperature and conductivity of the cleaning medium.

Keg Monitor, type KEG 2.0

Perfect control of your keg washing process. Faster and better process insights due to windows-based PC-program.

TOTAL LAB SOLUTION (TLS)

Complete, customized laboratories for quality analysis throughout the entire production process. Depending on the requirements, a Total Lab covers everything from concept to commissioning to after sales service.

IN-LINE EQUIPMENT

O₂ & CO₂ MEASUREMENT

In-line quality assurance and product monitoring is critical during the production process.

In-line CO₂ Meter AuCoMet-i

Determines the dissolved CO₂ content based on Henry's Law. Can easily be extended with an O₂ sensor, due to its modular design.

In-line O₂ Gehaltmeter, type OGM

Determines the DO content based on optical O₂ measurement.

In-line O₂ Gehaltmeter, type OGM gas application

Determines the O₂ content of CO₂ gas from the fermentation, compressed gases and/or ultra pure gases, which makes it especially suitable for use in CO₂ recovery plants.

TURBIDITY MEASUREMENT

In-line Turbidity Meter, type OptHaze-i

Determines the turbidity of beer and beverages according to the MEBAK standard.

VARIOUS EQUIPMENT

Dew Point Tester, type DPT

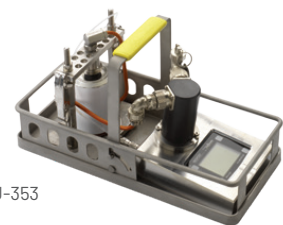
Measures the condensation temperature of humidity present in CO₂ or other gases.

Gauge Calibration Device, type GCD

Precisely calibrates pressure gauges and digital pressure sensors.

CO₂ Purity Tester, type CPT

Measures the purity of the CO₂ gas and is available in the measuring ranges 50 - 100 % v/v and 99 - 100 % v/v.



RPU-353



KEG 2.0



Bottle Monitor



AuCoMet-i

PARTNERING TO CREATE EXCELLENT SERVICE

Operating a state-of-the-art food and beverage production plant, requires just-in-time processes, minimized production losses and compliance with tough quality regulations. This is why it is so important to have precisely planned service intervals, trained service personnel and an outstanding supply of original spare parts.

Our dedication to your system continues after the sale. Through comprehensive lifecycle management, Pentair ensures that your installation operates at optimal performance. Pentair's Service Level Agreements are offered worldwide. They include monitoring of the system via the Internet to help diagnose operational problems, a short engineer response time of 24 hours and faster access to system components. This keeps downtime to a minimum in case of emergency.

Proper planning is key, and maintenance costs can be significantly reduced through accurately planned service intervals. Preventive maintenance helps to minimize maintenance time and unscheduled downtime. All of this contributes to a lower Total Cost of Ownership.

Pentair supports you in creating custom-made service plans that perfectly fit your requirements. In addition, Pentair offers plant audits that may relate to processes such as energy savings, increasing operational reliability or the expansion/upgrading of an existing installation. Audits can be carried out externally by means of a simulation or directly on-site.

For operation and service personnel, Pentair offers classroom and hands-on trainings on specific projects. Do not hesitate to contact us for more details on our trainings program.

FOR A RELIABLE AND EFFICIENT OPERATION

- Maximum operation uptime
- Reduced maintenance costs
- Variety of service options to choose from



HAFFMANS BV | P.O. Box 3150 | 5902 RD Venlo | Netherlands | +31773232300 | foodandbeverage.pentair.com

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