PENTAIR

HAFFMANS
QUALITY CONTROL
EQUIPMENT

UNDERSTANDING
QUALITY.

FOODANDBEVERAGE.PENTAIR.COM

HAFFMANS
QUALITY CONTROL EQUIPMENT

AT-LINE & LABORATORY

O$_2$ AND CO$_2$ MEASUREMENT

O$_2$ Meter – Oxy-2Go
A portable device for measuring the complete range of dissolved oxygen (DO) content in the wort, beer, or other beverages.

CO$_2$ Meter – GMT 2.0
A portable device for measuring CO$_2$ of beer or carbonated beverages based on Henry's Law.

O$_2$ Gehaltemeter, type o-DGM
Determines the dissolved oxygen (DO) content, the O$_2$ content in gases (CO$_2$ purity), and the TPO in a package (Uhlig method).

CO$_2$/O$_2$ Gehaltemeter, type c-DGM
Measures the dissolved CO$_2$ content and dissolved O$_2$ content in liquid, O$_2$ in gases (CO$_2$ purity), and the Total Package Oxygen in a beverage package.

CO$_2$ Gehaltemeter, type i-DGM
Measures the dissolved CO$_2$ content of a beverage.

Inpack TPO Meter, type TPO
Automatically determines the total O$_2$ content by measuring the DO and the headspace O$_2$ content of the packaged product in a single measurement.
Connect+ Laboratory: Optional product, for connection to a system (LIMS or MES).

Inpack TPO/CO$_2$ Meter, type c-TPO
Determines the DO, headspace O$_2$ and total O$_2$ content of the packaged product. In addition, the c-TPO measures CO$_2$.
Connect+ Laboratory: Optional product, for connection to a system (LIMS or MES).

Inpack TPO/CO$_2$ Meter, type c-TPO Selective
Determines the DO, headspace O$_2$, and total O$_2$ content of the packaged product. In addition, the c-TPO Selective measures CO$_2$ in selective (in the presence of nitrogen) and non-selective mode.
Connect+ Laboratory: Optional product, for connection to a system (LIMS or MES).

Inpack CO$_2$ Device
Manually determines the dissolved CO$_2$ content in carbonated beverages filled in bottles or cans and comes in different executions:

• Inpack CO$_2$ Calculator, type ICC
• Inpack CO$_2$ Meter Digital, type ICD

TURBITY MEASUREMENT

Turbidity Meter, type Vos Rota 2.0
An easy-to-use and reliable instrument to sample turbidity during production and measure after filling. It has a wide measuring range, which makes the instrument suitable for a broad range of beer types, including very turbid beers.

FOAM MEASUREMENT

Nibem Foam Stability Tester, type Nibem-TPH
Measures the foam collapse time, foam temperature, and the atmospheric pressure and humidity.

Inpack 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 Inpack Sampling Device 2.0 (ISD 2.0), and the Sample Bottle Filler (SBF).

GMT 2.0

c-DGM

c-TPO Selective

Vos Rota 2.0

Nibem-TPH

IN-LINE

O$_2$ AND CO$_2$ MEASUREMENT

O$_2$ Gehaltemeter, type OGM
Available in two executions:
1. Low pressure: Suitable for liquid applications up to 10 barg and gas applications under low pressure (<1 bar).
2. High pressure: Suitable for applications involving gases under high pressure (>1 bar).*

* Specific pressure reducing set is needed and included in package.

CO$_2$ Meter AuCoMet-i
Determines the dissolved CO$_2$ content based on Henry's Law. Can easily be extended with an O$_2$ sensor, due to its modular design.
Connect+ In-line: Optional product for communication with the PLC system.

TURBITY MEASUREMENT

Turbidity Meter, type OptHaze-i
Determines the turbidity of beer and beverages according to the MEBAK standard.

OGM

OptHaze-i

MONITORING OF PROCESSES

RPU-353

PASTEURIZATION

Redpost Pasteurization Unit 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-353 - 45 degree execution.
• 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

KEG WASHING

Keg Monitor, type KEG 2.0
Perfect control of your keg washing process. Faster and better process insights due to windows-based PC-program.

KEG 2.0

OTHER INSTRUMENTS

Inpack Sampling Device, type ISD 2.0
For sampling from bottles or cans. Samples can be supplied to various measuring devices for analysis purposes.

Inpack Air Meter, type IAM
Determines the air content in the headspace and the total air content of the package.

Sample Bottle Filler, type SBF
For sampling beverages from tanks, pipes or kegs without air intake.
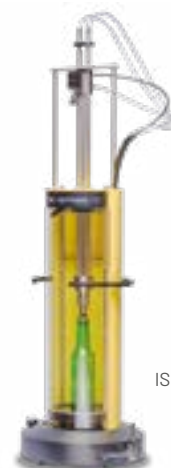
Dew Point Tester, type DPT
Measures the condensation temperature of humidity present in CO_2 or other gases.

Gauge Calibration Device, type GCD
Precisely calibrates pressure gauges and digital pressure sensors.

CO_2 Purity Tester, type CPT
For routine controls of the air content of commercial CO_2 gas and CO_2 gas from fermentation.

ISD 2.0

MINIMIZE COSTS.
MAXIMIZE UPTIME.
ENSURE COMPLIANCE.

Running a modern beverage production requires precision, efficiency, and strict quality control. That's why we go beyond installation and with planned service, trained experts, and genuine spare parts, we're your long-term partner.

Lifecycle Support That Works for You:

- Global Service Level Agreements (SLAs) ensure your systems run at peak performance.

- Planned maintenance that keeps your costs predictable.

- Training for your team.

CONNECT
WITH US

myHaffmans – The Quality Control Equipment Configurator

myHaffmans is our product configurator that helps you to choose the right quality control equipment for your specific requirements and needs. Easy selection - anytime, anywhere.

Ready to get started?
Visit **myhaffmans.pentair.com** or scan the QR code to explore our configurator and discover how easy it is to work with us.

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