



HAFFMANS

QUALITY CONTROL EQUIPMENT

UNDERSTANDING
QUALITY.

FOODANDBEVERAGE.PENTAIR.COM



HAFFMANS

QUALITY CONTROL EQUIPMENT

AT-LINE & LABORATORY

O₂ AND CO₂ MEASUREMENT

O₂ Meter – Oxy-2GO

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

CO₂ Meter – GMT 2.0

A portable device for measuring CO₂ of beer or carbonated beverages based on Henry's Law.

O₂ Gehaltemeter, type o-DGM

Determines the dissolved oxygen (DO) content, the O₂ content in gases (CO₂ purity), and the TPO in a package (Uhlir method).

CO₂/O₂ Gehaltemeter, type c-DGM

Measures the dissolved CO₂ content and dissolved O₂ content in liquid, O₂ in gases (CO₂ purity), and the Total Package Oxygen in a beverage package.

CO₂ Gehaltemeter, type i-DGM

Measures the dissolved CO₂ content of a beverage.

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.

Connect+ Laboratory: Optional product, for connection to a system (LIMS or MES).

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.

Connect+ Laboratory: Optional product, for connection to a system (LIMS or MES).

Inpack TPO/CO₂ Meter, type c-TPO Selective

Determines the DO, headspace O₂, and total O₂ content of the packaged product. In addition, the c-TPO Selective measures CO₂ in selective (in the presence of nitrogen) and non-selective mode.

Connect+ Laboratory: Optional product, for connection to a system (LIMS or MES).

Inpack CO₂ Device

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

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

TURBIDITY 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

O₂ AND CO₂ MEASUREMENT

O₂ 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.

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.

Connect+ In-line: Optional product for communication with the PLC system.

TURBIDITY MEASUREMENT

Turbidity Meter, type OptHaze-i

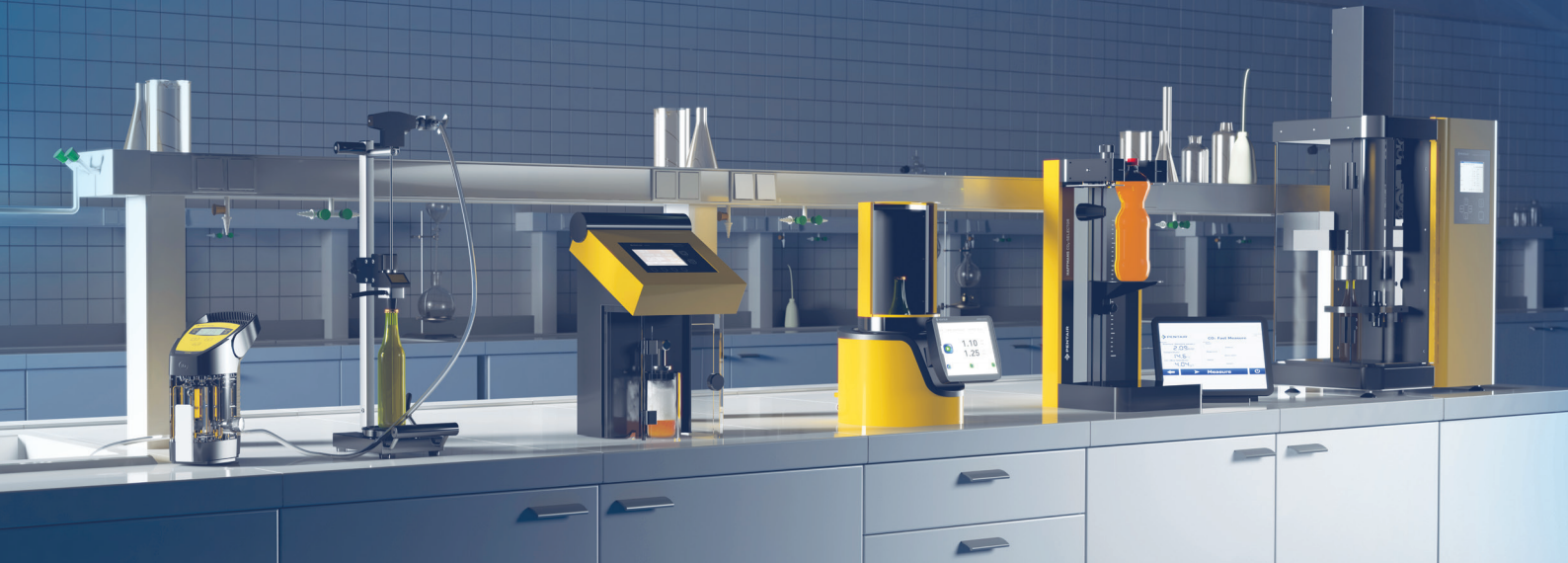
Determines the turbidity of beer and beverages according to the MEBAK standard.

OGM



OptHaze-i





MONITORING OF PROCESSES

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

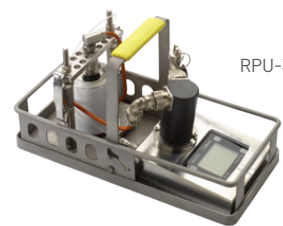
Charges PU Monitor and enables data transfer from the Monitor to a PC or printer and comes in two executions:

- 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.



RPU-353



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

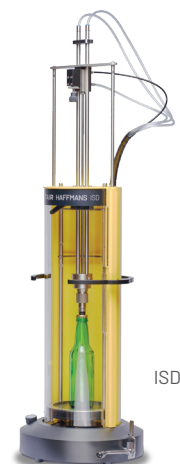
Measures the condensation temperature of humidity present in CO₂ or other gases.

Gauge Calibration Device, type GCD

Precisely calibrates pressure gauges and digital pressure sensors.

CO₂ Purity Tester, type CPT

For routine controls of the air content of commercial CO₂ gas and CO₂ gas from fermentation.



ISD 2.0

PENTAIR SERVICE

PREVENTATIVE MAINTENANCE

Our comprehensive service plans ensure your Pentair equipment meets expectations for plant availability, product quality, and process safety.

SPARE PARTS

Pentair offers original spare parts for preventative maintenance and repairs, reducing costs and risks with fast availability.

SERVICE AUDITS

On-site inspections and preventative maintenance maximize plant performance, with detailed reports on status and performance.

SERVICE LEVEL AGREEMENTS

Transparent expectations for response times, spare parts availability, and system performance.



- Maximum operation uptime
- Reduced maintenance costs
- Variety of service options



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

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