

PreciTURBO C 1000

PreciCONTROL based Measuring unit



Alfons Haar

Only one measuring system for alternate delivery of gasoline, diesel fuel and heating oil

The measuring system for bulk delivery PreciTURBO C 1000 allows fully automated contamination-free product changes

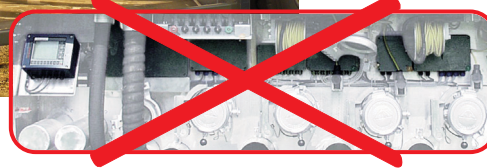
For measured deliveries of petroleum products to stations

This vehicle mounted turbine measuring system with dry venting can successive deliver different petroleum products and replaces therefor two conventional gas extractor measuring systems. In combination with DTMQ (devices for transferring measured quantities) this system offers more flexibility than dipstick systems, at comparable weight but significantly less running costs.



CountMASTER 4A - interactive interface between operator and measuring system

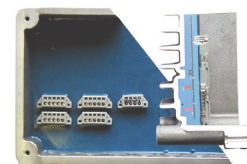
Complete system
ATEX approved
MID approved -
DE-10-MI005-PTB013



No more boxes!

- **Contamination-free** delivery by complete cleanliness of the delivery pipe
The delivery system can be used for gasoline, diesel fuel and heating oil. PreciTURBO is classified as a completely cleanable system, no flushing is needed.
- **Low weight** and compact size
PreciTURBO incorporates the manifold assembly and removes the need for a conventional gas separator. With this, PreciTURBO needs a minimum space and offers up to 160 kg weight saving compared to two conventional gas extractor systems.
- **Fully automatic control** of all tank truck functions inclusive pump, collector and foot valves, simple operation - no pneumatic control blocks or logic modules are necessary

- Faster delivery rates due to low pressure drop
- Only one interface for signals and power supply - easy installation, no additional terminal boxes are necessary
- High reliability electronic because of potting and burn-in testing of every component



- By using the tamper-proof bus system **PreciCONTROL** the complete metering system becomes safe against any fraudulent manipulations (see separate brochure)

When placing on the market according to MID Annex D the calibration-related parameters will be pre-configured by Alfons Haar

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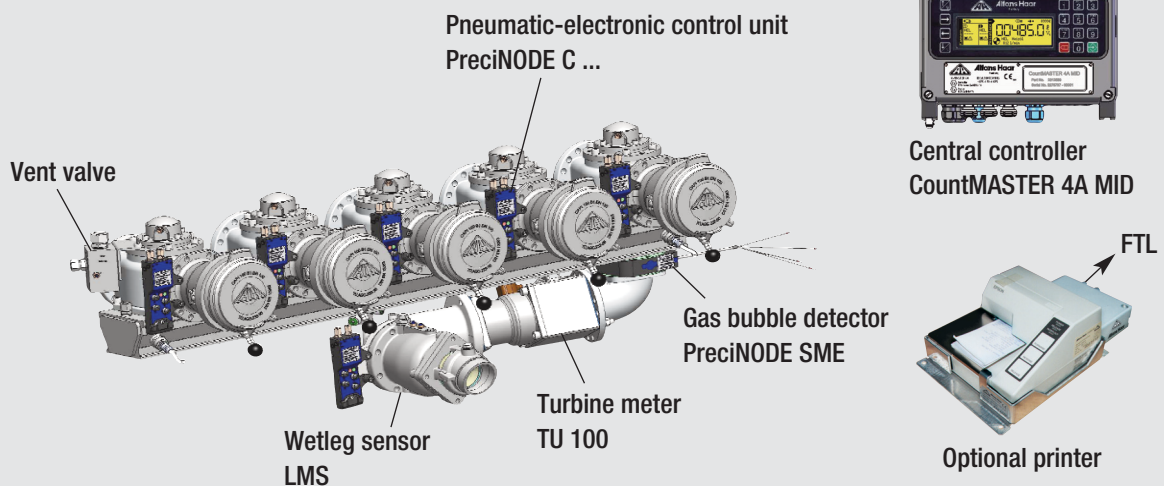
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DESCRIPTION

At the beginning of a delivery the measuring system and the manifold will be completely filled with product. During delivery the gas in the product flow is monitored all the time. Is too much gas in the product, the delivery will be stopped and the gas will be deflated through a vent valve in the manifold. After that the delivery will be continued in the small stage.

At the end of the delivery the bottom- and manifold valves are closed and the manifold will be emptied to the level of the outlet to the measuring system. Then the known content of the measuring system will be drained, monitored by the wetleg sensors. After that manifold and measuring system are completely emptied.

COMPONENTS



TECHNICAL DATA

Measuring range:	133 l/min up to 1000 l/min
Min. measuring quantity:	1000 l
Measuring product:	Liquids, except water, with a viscosity < 20 mPas at 20° C (e.g. unleaded, super unleaded, diesel kerosene, gas oil, biodiesel)
Max. overpressure:	10.0 bar
Power supply:	24 V DC on-board (15 .. 32 V)

OPTIONS

The central controller CountMASTER 4A can be extended by software upgrade:

- **RPMS** (Retained Product Monitoring System, empty check)
- **SPDS** (Sealed Parcel Delivery System)
- **COP** (Cross Over Prevention)
- **Double measuring system** (see separate brochures)