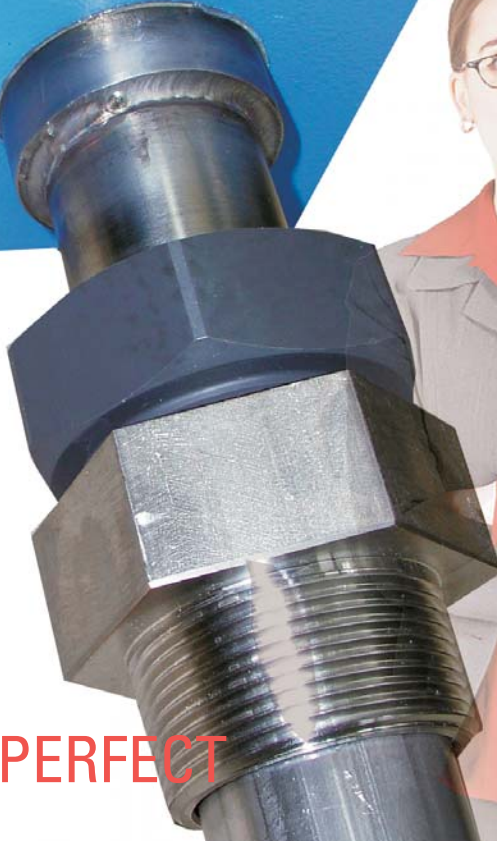


OPTILEVEL

THE UNERRING



SIMPLY PERFECT

OPTILEVEL ELECTRONIC LEVEL

OPTIL

GAUGE HLS 3010 HF

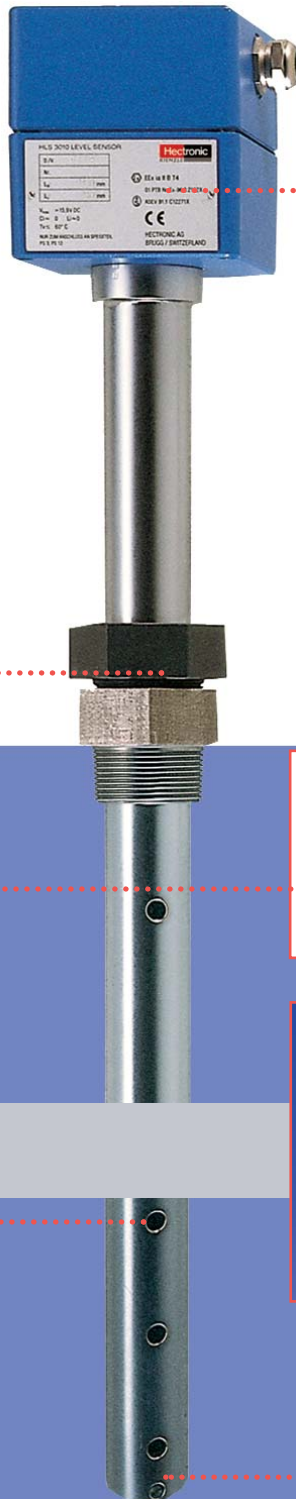
The HLS 3010 HF gauge works using the capacitive comparison method, has no moving parts and is therefore not subject to any wear and tear. The gauge senses any change in fluid and automatically adapts to the new medium. The measuring process used is independent of pressure and temperature. Water and temperature measurement is standard. The probe is produced in different lengths and can be used with different tank diameters. This means it can be used worldwide as the screw joints are offered in different standard thread sizes. Another special feature: The probe can also be installed in LPG.

SCREW JOINT

A G 1.5-inch thread or an NPT 1.5-inch thread allows easy clamping in place. While the probes for traditional tank equipment have screw joints for clamping, the liquid petroleum tanks (LPG) have a fixed welded sleeve to ensure a secure joint. This sleeve has passed all pressure tests with flying colours and can withstand without any problem a pressure of 20 bar, which can arise with LPG.

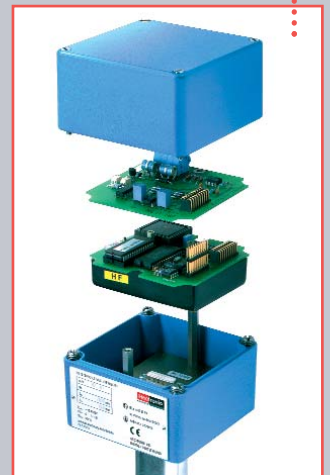
GAS PIPE

A solid 1.5 inch gas pipe guarantees extreme robustness. Teflon and stainless steel are the only materials to come into contact with the media. A float which can be susceptible for instance to sticking is not used. Thanks to this arrangement the maintenance costs are virtually zero.



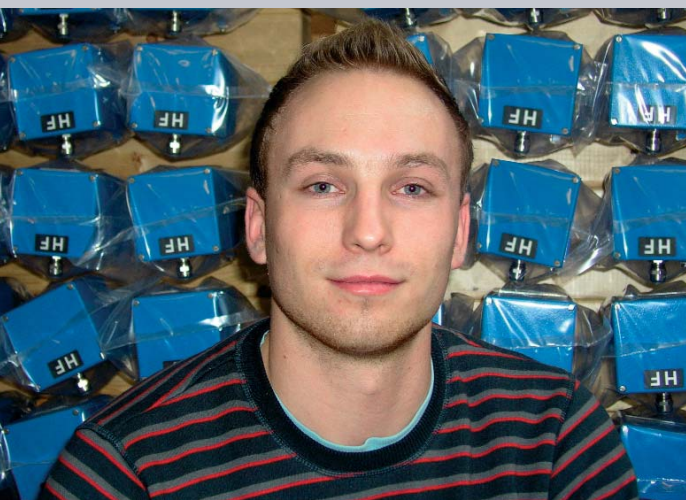
PROBE HEAD

All the electronics are located in the probe head and can be completely exchanged in just a few minutes with the probe installed and during tank operation. By means of the integrated microprocessor all relevant data (volume, temperature, level) are shown on a digital display. The additional release of the H-protocol on the probe allows parallel operation of two protocols (H-protocol and Hectronic-protocol) and for that direct connection to the POS-system, which supports these protocols. Tank table management occurs on the probe itself. When the medium is changed there is no need for any adjustments to be made, as the EX-approved OPTILEVEL probe is self-calibrating. Submersible pumps do not affect the probe. The probe is leaktight according to IP 68, e.g. even for prolonged periods in water.



SENSOR

Density measurement, which is optional, takes place at the bottom of the probe via a pressure sensor. In so doing it is possible to recognise and display changes in density. This means that stretching or mixing fuels is immediately identifiable.

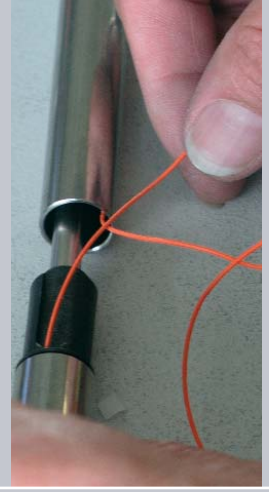
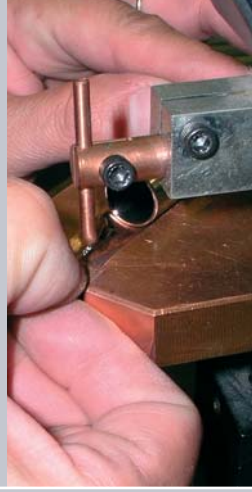


PRODUCT MANAGER

KENNY REICHEL:

“Do you want to receive absolutely correct data for your tank contents automatically and quickly? Working one hundred percent, without any problems or breakdowns requiring call-out? In short: Would you like to earn more money and make savings on your measurement system? Then I have exactly the right solution for you: OPTILEVEL!”

EVEL



PRECISION TANK INSIGHT

YOUR BENEFIT

1. long lifetime with minimum maintenance costs
2. easy installation with low investment
3. perfect logistic thanks to rapid data management

OPTILEVEL is the ideal system for modern tank gauging. The HLS 3010 probe, which has undergone thorough, tried and tested technological development, the well-thought out system architecture, open interfaces and a range of useful peripherals such as user interface, printer, tank driver display and in particular the Controller 104M Basic/Master in connection with the software modules alpha and beta make OPTILEVEL the best choice for your petrol station. It offers exact registering of fill level, water level and temperature and so gives you precise insight into your fuel tanks. This system, which is based on a capacitive measurement process offers even more advantages. Thanks to this technology, OPTILEVEL is insensitive to outside factors such as conductance, additives, dirt film, submersible pumps, foam, vapour, sump or vibrations. Dispensing with moving parts makes it extremely reliable and wear-free. A refined product for tough everyday use.

Easy to install and service-friendly

The probe can be screwed into a G 1 1/2 inch sleeve in the manhole lid without any additional covering parts. All the electronics are located in the probe head and can be completely exchanged with the probe installed and during tank operation in just a few minutes.

Nothing bothers the probe!

Whether it is permanently flooded manhole pits, aggressive or explosive fluids or very cold (-25°C) or very hot (+100°C) fluids, OPTILEVEL handles it without any problem. Even electromagnetic fields created by a submersible pump do not affect the probe - it can even be fitted immediately next to it. Furthermore there is no need for any additional still pipe to absorb any wave motions that may occur. The probe itself offers allround protection.

OPTILEVEL CAN DO ALL THIS

Supply identification: OPTILEVEL automatically registers the quantity and time of a delivery.

Leak detection: OPTILEVEL monitors both the tank and the piping system. Even the tiniest irregularities are immediately identified.

Automatic control of incorrect quantities: OPTILEVEL compares the sold quantity and the actual quantity in the tank. At the same time of course it takes account of variations caused by temperature changes.

Automatic tank calibration: Standard tank tables are loaded or calculated and OPTILEVEL corrects them automatically to ideal tables for each particular tank.

"Meter Mapping": OPTILEVEL automatically allocates the pumps to the appropriate tanks. This also applies to MPDs.

Measuring density: OPTILEVEL detects changes in density. Using this data you can see immediately if something is wrong with the tank contents. Whether it is water running into the tank or the supply of adulterated fuel. More certainty would be hard to get.

OPTILEVEL



HLS 3010HF
HLS 3010 HFD
HLS 3010 HF - LPG
HLS 3010 HF - AdBlue

OPTILEVEL Supply Interface RS 232
Protocols:
Hectronic Protocol
H-Protocol (optional)

Displays
Controller
Software
Fuel terminals
Direct connection

InfraV
User In

104M
104 M
EPSI

Optav

TA 23
Hecst
Hecfle

Cash
FFC

Optav
remot

FACTS,
FACTS,
FACTS ...

TECHNICAL DATA

Gauge HLS 3010 HF / 3010 HF LPG

Tank size (height)	800 mm to 6000 mm
Flange	1.5" G or 1,5" NPT thread
Contact medium materials	stainless steel, teflon
Probe head tightness	IP68
Certificates / Approvals	PTB 03 ATEX 2114 IECEx TUN 04.0023 CSA 1600476 GOST D.E.C. 29.010 A CCOE P162760
Temperature range	
Medium	-25°C to +100°C*
Amnient	-25°C to + 60°C

Measured data for resolution

Water: +/- 1mm
Medium: +/-0.1mm
Density: +/- 5 g/l
Temperature: +/- 0.1°

Leak detection function

static and dynamic (EPA compliance)

OPTILEVEL Supply

Number of gauges

1,4,5 or 8 gauges per module; can be extended up to 4 modules

Dimensions in mm

W 300 x H 230 x D 85

Certificates / Approvals

TÜV 98 ATEX 1382
IECEx TUN 04.0024
CSA 1600476
GOST D.E.C29.010A
CCOE P162760

*For the application in the Ex-zone 60°C max.

Hectronic

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mail@hectronic.com
www.hectronic.com



*TCP/IP-connection possible by usage of the W&T-adapter

Controller 104M Basic/Master, LON, EPSI

Display (104M Master) LCD 4 X 20,
H= 4,8 mm, backlit

Dimensions in mm W 140 X H 230 X D 60

Tank Driver Display

Display LCD 4 X 20,
H= 9 mm, backlit

Dimensions in mm W 160 x H 160 x D 60

User Interface

Display LCD 4 X 20,
H= 4,8 mm, backlit

Dimensions in mm W 130 X H 170 X D 45

Infra Vision

Display LCD 4 X 20,
H=9 mm, backlit

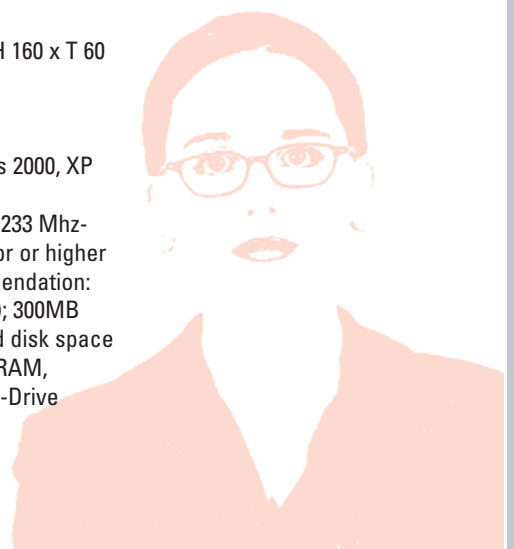
Dimensions in mm B 160 x H 160 x T 60

Optavias

System Windows 2000, XP

Hardware

Pentium 233 Mhz-processor or higher (recommendation: 300 Mhz); 300MB free hard disk space 128 MB RAM, CD-ROM-Drive



OPTILEVEL

IT'S YOUR CHOICE!

CONFIGURATION OPTIONS WITH OPTILEVEL



The basic configuration: The OPTILEVEL Supply forms the basic configuration, because all gauges are connected to this. It offers the option of handling up to eight gauges directly via one serial RS 232 interface. From here it is then possible to connect to autofuel terminals, cash systems or modem, controller etc.

INDIVIDUAL OPTIONS FOR YOUR SPECIAL REQUIREMENTS:

1. Fuel Terminal - direct connection

You can connect all Hectronic Fuel Terminals as well as various POS-systems directly to the Supply. Analyses can then take place using the FuelData software or the Fuel Terminal display.



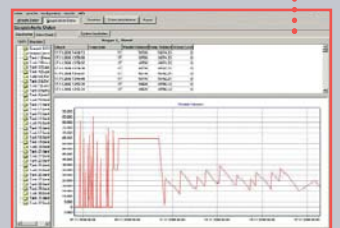
2. Standalone/User Interface

This cost-effect solution is limited to standard data. The user interface can be connected to a printer and can then be directly connected to the Supply itself. All relevant information about product, volume, ullage or temperature for up to eight tanks is displayed.



3. Optavias

Optavias is the software for connecting gauges directly to a PC. All functions such as tank level administration, volume conversions, temperature compensation (conversion to normal temperature), and threshold value default with visual and acoustic alarms are integrated in the system. The software excels itself with a user-friendly graphic and tabular-style interface. Optavias is based on MSSQL and provides options to store and analyse data in the database. The optional remote module provides online functionalities. An additional graphic user interface (table format) places you in the position to list all administered stations. Up to 100 of these stations can be displayed, with the possibility to create your own customised charts by using the filters.



5. Controller (104M Master/104M Basic/EP5I/LON)

The OPTILEVEL controller offers you extensive insight into your tank. It can read the millimetre data of the gauges, convert them into volumes/litres and translate this into the appropriate protocol so that they can be read at the cash desks. At the same time it is a compact and flexible data evaluation device. Nothing will offer you more.

