

SI Analytics

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HandyLab 7xx

THE NEW MOBILE MEASURING DEVICES FROM SI ANALYTICS WITH MEMOSENS®
OFFERS INCREASED SAFETY AND A USER-FRIENDLY INTERFACE



HandyLab 700/750/750EX/780

Selection Table

HandyLab	700	750	750EX	780
Memosens® pH and ORP (Redox)	X	X	X	X
Memosens® conductivity				X
Memosens® oxygen				X
Analog pH and ORP (Redox)	X	X	X	X
Temperature	X	X	X	X
Ex-Zone 0/1			X	
HandyLab Pilot Software Interface		X	X	X
Micro USB-B		X	X	X
Datalogger (values)		5,000	5,000	10,000
Li-Ion rechargeable batteries		X		X
Display	LCD-Segment	LCD-Segment	LCD-Segment	QVGA-TFT color graphic
Multi-language				X
Help Function				X



HandyLab 700/750/750EX/780

Memosens® benefits:

- Inductive electrical connection assures disturbance-free data transfer.
- Galvanically isolated
- Resistant against outside influences
- Calibration data stored in the sensor head
- High reliability
- Digital communication eliminates external interference and assures that calibration data is assigned to the correct sensor.
- Predictive maintenance
Sensor age and wear are monitored so that future performance can be predicted.
- Submersible due to hermetically sealed sensor head
- Memosens® is an open-architecture digital protocol that is supported by several manufacturers as their standard.



Memosens®

Resistant against:

- Moisture
- Corrosion
- Salt bridges
- Connecting problems
- Bad galvanic isolation



HandyLab 700/750/750EX/780

For increased safety and a user-friendly interface:

- The benefits of the digital Memosens[®]-Technology, the most secure measurement and maximum ease of use in the laboratory, pilot plant, and process.
- Robust and chemical resistant housing.
- Drop-tested and certified from a height of 1 meter.
- Both Memosens[®] and analog sensors can be connected.
- IP 67 / IP 66 rated



Rugged design

- Integrated cover
 - with operating instructions attached
- unbreakable
- Multiple mounting configurations
- Scratch-free mineral glass display



Quick-change artist

- By flipping over the cover and attaching it to the hook, the HandyLab turns into a bench-top meter.



Multiple mounting configurations



Multiple mounting configurations.

- The integrated hook allows the HandyLab to be hung up in the field.



For connection of Memosens® Electrodes



- For analog and Memosens® Electrodes
- The integrated and detachable sensor holder provides protection from damage.



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Micro USB-B		X	X	X
Datalogger (values)		5.000	5.000	10.000
Li-Ion rechargeable batteries		X		X
Display	LCD-Segment	LCD-Segment	LCD-Segment	QVGA-TFT color graphic
Multi-language				X
Help Function				X



HandyLab 700

The basic Memosens mobile measurement device:

- high contrast + scratch resistant Glass-LCD-Display
- Plain text line for intuitive operation
- Sensoface: sensor status at a glance
- Automatic calibration up to 3 points
- Manual calibration with adjustable buffer values
- real time clock and battery status display
- More than 1,000 hours of operation using standard batteries (4XAA)



HandyLab 750

Mobile Memosens measuring device with data storage and USB interface:

- Data storage up to 5,000 points
- Micro-USB-connector
- Compatible with HandyLab Pilot software for data analysis and sensor management.
- High contrast + scratch resistant Glass-LCD-Display
- Plain text line for intuitive operation
- Sensoface: sensor status at a glance
- Automatic calibration up to 3 points
- Manual calibration with adjustable buffer values
- Real time clock and battery status display
- Optional rechargeable battery pack. Recharged when connected via USB.



HandyLab 750 EX

Mobile Memosens measuring device with data storage and USB interface for use in explosion-proof areas:

- ATEX Zone 0/1
- Data logger for up to 5,000 points
- Micro-USB-connector
- Compatible with HandyLab Pilot software for data analysis and sensor management.
- High contrast + scratch resistant Glass-LCD-Display
- Plain text line for intuitive operation
- Sensoface: sensor status at a glance
- Automatic calibration up to 3 points
- Manual calibration with adjustable buffer values
- Real time clock and battery status display
- Optional rechargeable battery pack. Recharged when connected via USB.



HandyLab 780

Portable multi-parameter Memosens®-World with storage and USB interface :

- For Memosens®-Sensors measuring pH, conductivity, and dissolved oxygen.
- Automatic recognition of the measured parameter with Memosens®
- Automatic compensation for the ambient pressure for the oxygen measurement
- Data logger with 10.000 points
- Micro-USB-connector for communication with the software HandyLab Pilot for data management and administration of digital Memosens®-Sensors
- Intuitive navigation with detailed information and help functions
- Sensoface: Sensor condition at a glance
- Automatic calibration up to 3 points
- Manual calibration with adjustable buffer values
- real time clock and battery status display
- More than 1,000 hours of operation using standard batteries (4XAA)



HandyLab 780

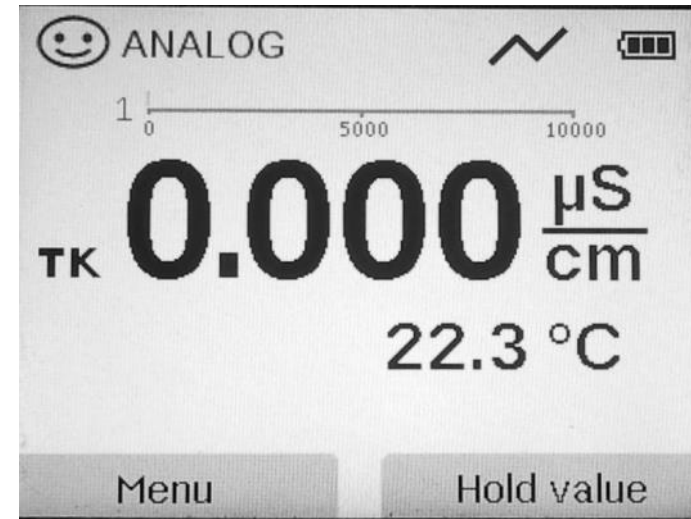
- TFT display



HandyLab 780

Intelligent data logging

- Display of free storage
- Identification and indication of the measuring point
- User identification and notices for each data set.
- Filter and comparison of data sets



The image shows the "Data logger" screen of the HandyLab 780. The title "Data logger" is at the top left, and a battery level indicator is at the top right. The screen displays a list of configuration options with their corresponding values:

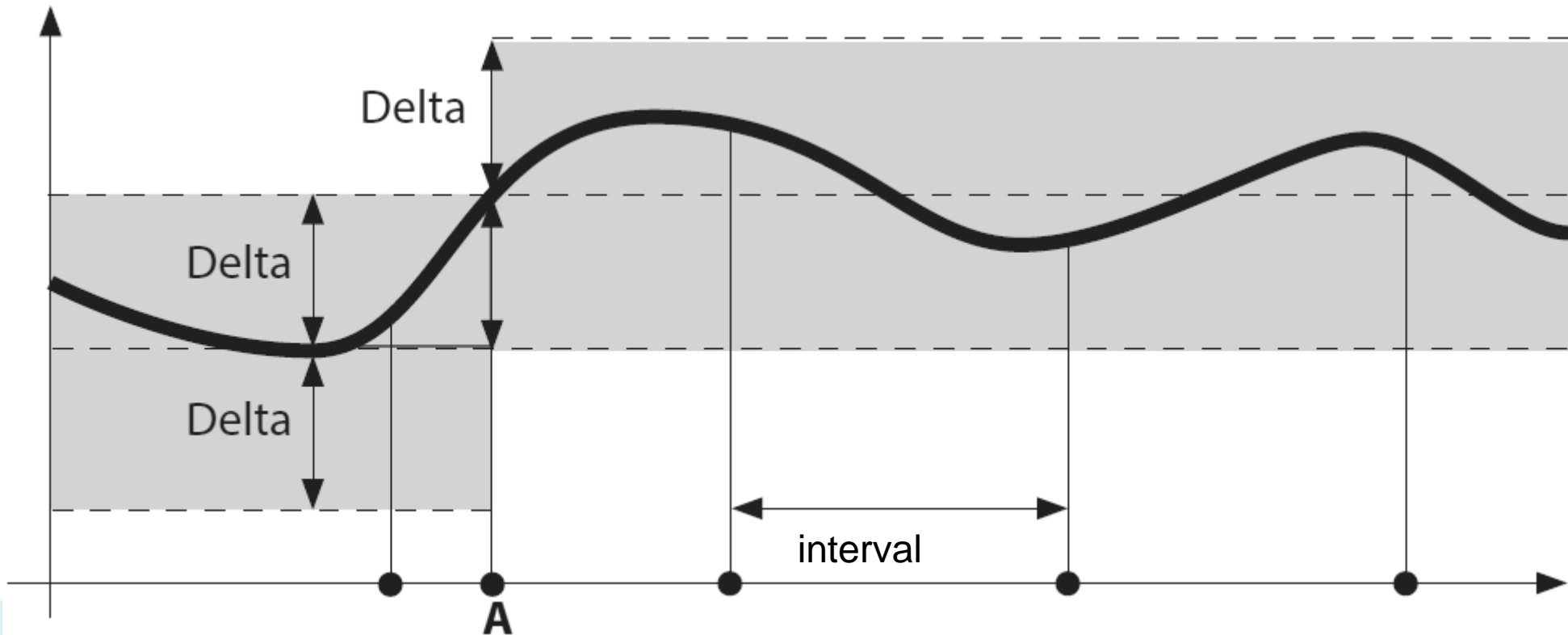
Meas.point	FERMENTER
Note	BASF BLACK...
Recording	Non-circular
Logger type	Interval
Interval	00:02:00

At the bottom of the screen, there are two buttons: "Back" on the left and "Start" on the right.

HandyLab 780

Intelligent data logging

- Combines logging with interval and delta
- pH and temperature



Communication with HandyLab Pilot

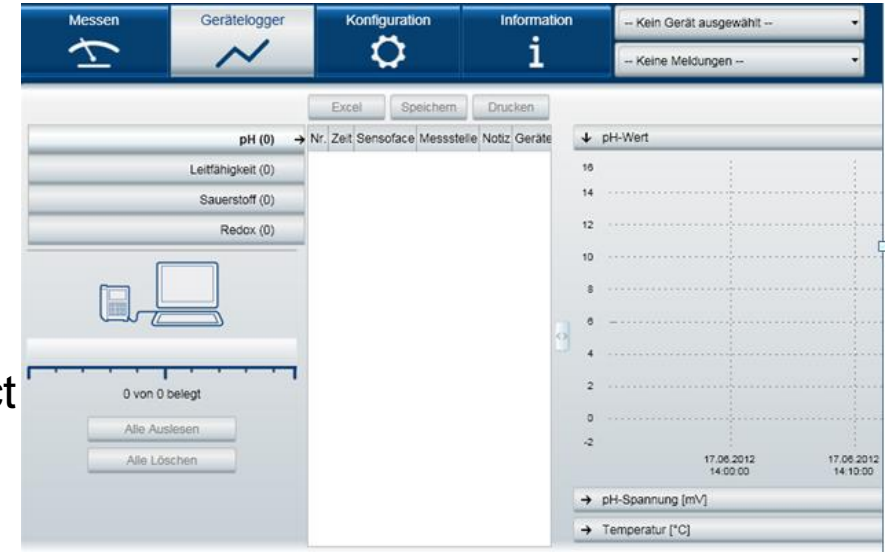


The screenshot shows the software interface for the HandyLab Pilot. The top navigation bar contains four main sections: 'Messen' (Measurement), 'Gerätelogger' (Device Logger), 'Konfiguration' (Configuration), and 'Information'. Below this, there are buttons for 'Excel', 'Speichern' (Save), and 'Drucken' (Print). The main area is divided into several sections. On the left, there is a list of measurement parameters: 'pH (0)', 'Leitfähigkeit (0)', 'Sauerstoff (0)', and 'Redox (0)'. Below this list is a section labeled '0 von 0 belegt' (0 of 0 occupied) with buttons for 'Alle Auslesen' (Read All) and 'Alle Löschen' (Delete All). The central part of the interface is a data table with columns: 'Nr.', 'Zeit', 'Sensoface', 'Messstelle', 'Notiz', and 'Geräte'. On the right, there is a graph titled 'pH-Wert' (pH Value) with a y-axis ranging from -2 to 16. The graph shows two data points: one at 17.06.2012 14:00:00 and another at 17.06.2012 14:10:00. Below the graph, there are two dropdown menus: 'pH-Spannung [mV]' and 'Temperatur [°C]'. The bottom of the interface shows the status '0 von 0 belegt' and buttons for 'Alle Auslesen' and 'Alle Löschen'.

Communication with HandyLab Pilot

HandyLab Pilot connects your PC to the Memosens® world:

- Windows user interface for intuitive handling.
- Automatic connection of the software to your instruments when connected to a PC.
- Automatic recognition of the measuring device
- When connecting to multiple instruments, simply select from the displayed list.
- Easy administration and analysis of measured data.



communication with HandyLab Pilot

HandyLab Pilot connects your PC to the Memosens world:

- Store and transfer sensor data
- Configuration of max and min borders for the measured parameter.
- Adjustment of differential values.
- Allows for manual input of buffer sets
- Display of device and sensor information (for pH as sensor network diagram)
- Storage of data as a CSV file or export to Excel
- Print report



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