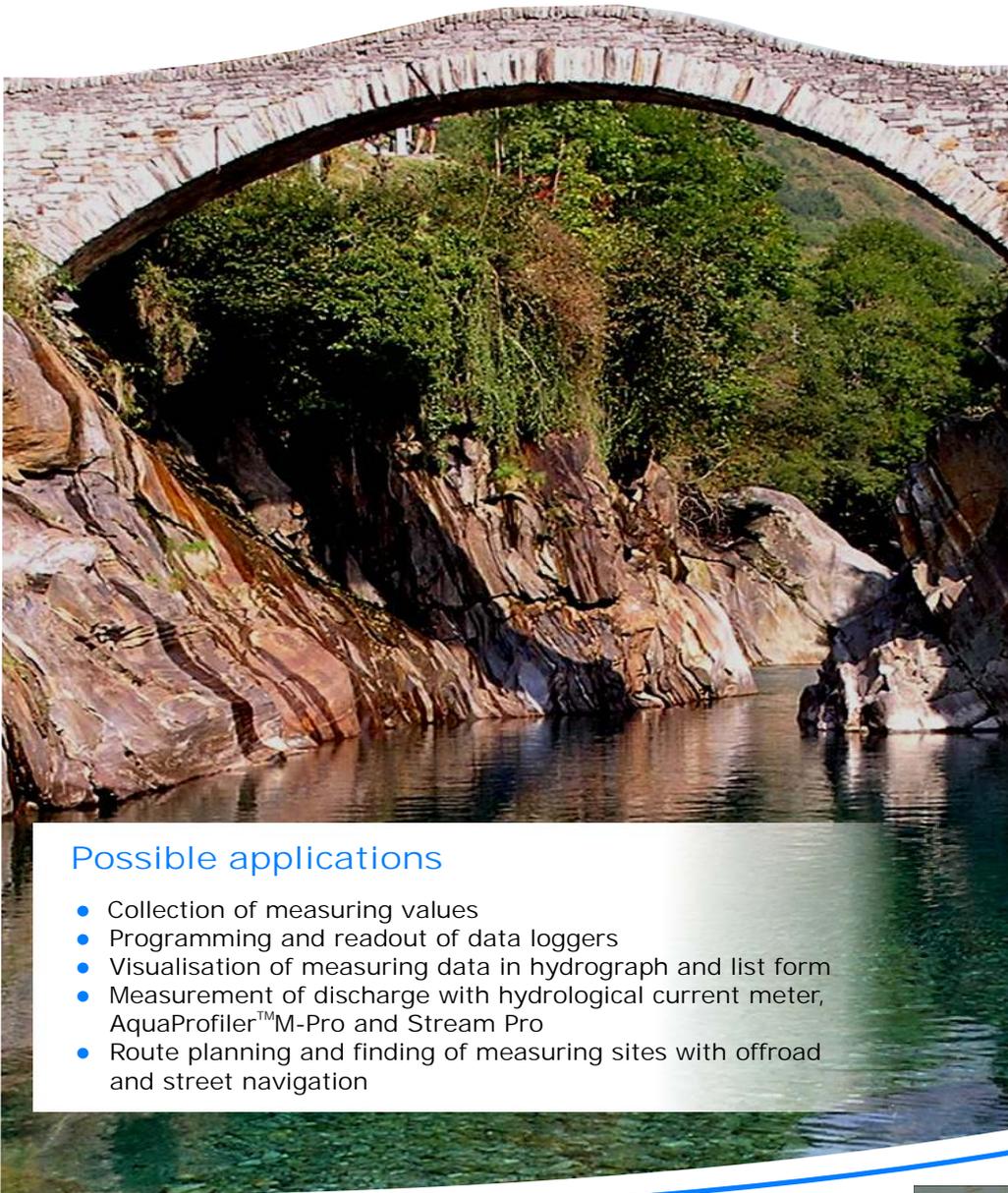




SEBA HYDROMETRIE

SEBA HDA The Hydrological Digital Assistant

tough and easy-to-handle operation terminal,
perfect for any application under harsh conditions



SEBA HDA



HDA

Hydrological Digital Assistant
SEBA HDA



Nomad

Possible applications

- Collection of measuring values
- Programming and readout of data loggers
- Visualisation of measuring data in hydrograph and list form
- Measurement of discharge with hydrological current meter, AquaProfiler™M-Pro and Stream Pro
- Route planning and finding of measuring sites with offroad and street navigation



groundwater

logger programming



groundwater

entering ecanting values



surface water

discharge measurements
with current meter



surface water

Streampro handling



navigation

finding measuring
sites



The Hydrological Digital Assistant SEBA HDA



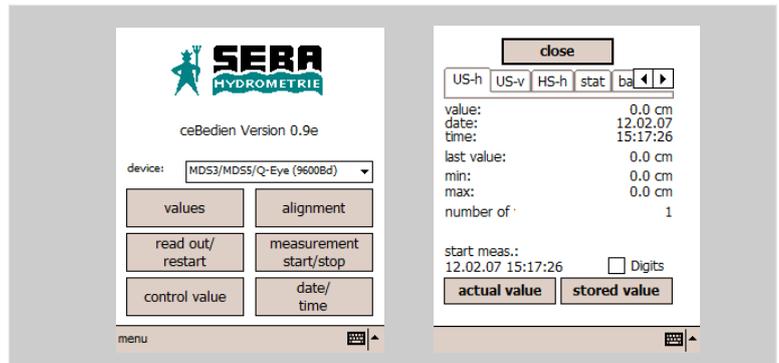
The SEBA-HDA is the multifunctional handheld for water management. It is shock-resistant, easy-to-handle, lightweight and waterproof. Therefore it is a perfect assistant to cope with numerous tasks on-site. Equipped with comfortable SEBA software tools, the HDA allows programming and setting of all data loggers within the SEBA product line (e.g. SEBA data loggers MDS-Dipper, MDS-Floater, LogCom etc.). The data visualisation and justification software MGMDScce ensures a clear illustration of time series in the form of hydrographs and lists. The software "Level Observer" allows a comfortable collection of measuring values (e.g. contact meter measurements). In addition the HDA replaces traditional counting devices for discharge measurement. The Software Qce permits both the processing of propulsion impulse (e.g. SEBA current meter F1) and the direct analysis of discharge measurements on-site. The HDA also serves as an operation terminal for the mobile ADCP measurement system SEBA Aqua Profiler™ and Stream Pro by RDI. Optionally, the HDA can be equipped with a GPS system. With the help of a user-friendly route planning software the HDA targets you to your measuring site even in an impassable territory.

ceBedien - comfortable handling and readout of SEBA MDS data logger

User-friendly application software for all SEBA loggers within the MDS product line. Possible entry of encanting values. Convenient programme linkage with MGMDScce to graphically visualize current data.

The collected measuring values are transferred to the PC via USB cable.

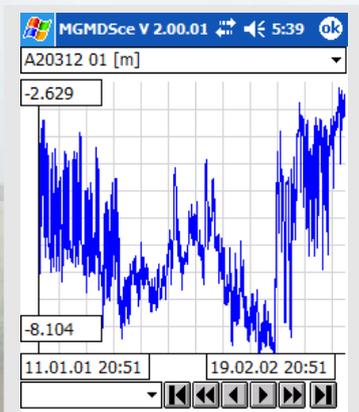
The SEBA database software "DEMASdb" or other commercial programmes (e.g. WISKI, MSEExcel etc.) provide a comfortable processing and archiving of the measured data.



MGMDScce - visualisation of time series in form of hydrographs and lists

MGMDScce displays time series as hydrographs and lists in a comfortable way. The user has the possibility to check the quality of the collected values locally at a glance. A scroll function allows to enlarge and view different time periods if required.

A list view of the measured data and information about the measurement round off the operational range of MGMDScce.



MGMDScce has a conversion function, which converts your measured data into ASCII data.

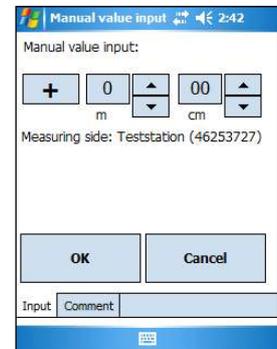
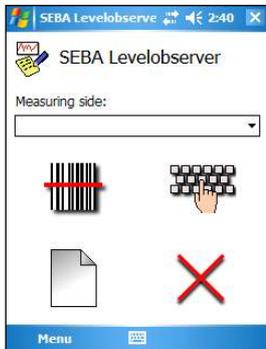
Information	Description
Serialno:	A20312
Devicetype:	FLOATER (MDS4-A1/L...
Valuecount:	809
Start:	11.01.2001 20:51:42
Stop:	19.02.2002 20:51:42
Max:	-2,628
Min:	-8,103
Avg:	-5,727
Unit:	m
Measurement:	norma

DateTime	Value	Unit
19.02.2002 20:51:42	-2,63	m
19.02.2002 08:51:42	-2,65	m
18.02.2002 20:51:42	-2,64	m
18.02.2002 08:51:42	-2,64	m
17.02.2002 20:51:42	-2,65	m
17.02.2002 08:51:42	-2,66	m
16.02.2002 20:51:42	-2,63	m
16.02.2002 08:51:42	-2,64	m
15.02.2002 20:51:42	-2,64	m
15.02.2002 08:51:42	-2,65	m
14.02.2002 20:51:42	-2,64	m
14.02.2002 08:51:42	-2,64	m

Level Observer - the digital notebook for value entering

Notepad and ballpen are a thing of the past. With the use of the Level Observer it is possible to enter the tapping value using the barcode scanner or the extra large user interface.

The software - which is included in delivery - can generate barcodes individually for your measuring sites. The data are exported in ASCII format so that they can be easily processed with DEMASdb or other programmes (e.g. MSEExcel).



Q ce - Discharge measurement simplified

Turn your HDA into a signal counter. In combination with SEBAQce the HDA stores and visualises propulsion measurements. The data exchange is effected on your PC via SoftwareQ 3.0. All measuring sites, devices and teams previously saved in SoftwareQ are on the HDA ready to be retrieved.

Every measurement is logged by a data base. You can continue aborted measurements at a later date or load new measurements. A list displays all available/ selectable measuring points.

Gauging station
 ?

Meter
 ?

Staff
 ?

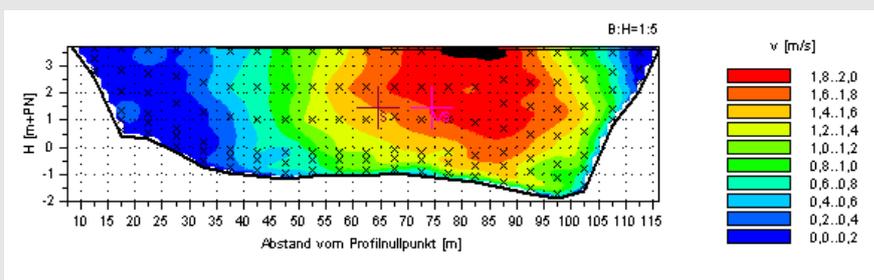
Date/Time

Gauging station: 11_2005 Meter:
 F1_2181_125-250

Vertical: 1 observation points: 1

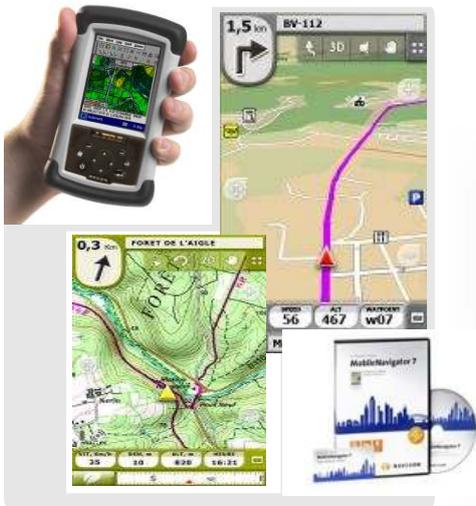
L1	L2	L3	L4	L5
1/1	2/1	3/1	4/1	5/1
1/2	2/2	3/2	4/2	5/2
1/3	2/3	3/3	4/3	5/3
1/4	2/4	3/4	4/4	5/4

After a measurement the data can be transferred to the computer in a SoftwareQ-format and then imported in Software Q.



Universal Current meter F1

GPS module - Finding measuring sites, route planning and optimisation



Optionally you can upgrade the HDA with a GPS module. Your HDA leads you safely to your measuring sites without any detours, regardless if it is street or offroad navigation. In addition you can optimise the route in a comfortable way saving time and money.

Features of optional software packages:

- TwoNav: On-Road/Off-Road navigation in one single software
- Personal Points of Interest / Waypoints e.g. capture your measuring sites and record their description
- Route localisation (e.g. of the measuring sites to be approached)
- Record and Follow your Tracks. Record your tracks as you travel. Then, follow the recorded track to find your way home
- Display previously captured measuring sites
- Individual maps can be deployed
- Quovadis QV: Import your own maps e.g. from mapping websites, CD-ROM, scanned or digitally photographed on your Desktop-PC then transfer the data onto your SEBA-HDA.

Technical Data - HDA

Standard features:

- Windows Mobile 6.0 (Classic edition)
- 400 MHz
- 64 MB high-speed SDRAM
- 128 MB or 256 MB nonvolatile Flash storage
- color TFT display - readable under sunlight conditions
- touchscreen
- rugged waterproof design
- integrated speaker and microphone
- 15 hours of continuous room-temperature

General data:

- size: 16,5 x 9,5 x 4,5 cm (6,5 x 3,75 x 1,75")
- weight: 490 g (17 ounces)
- operating temperature: -30°C to 60°C
- protection class: IP 67



Electronics:

- processor: Intel PXA 255 XScale CPU, 400 MHz (Recon 400X)
- display: 240x320 pixel (QVGA) color TFT, LED-light
- batteries: 3800 mAh NiMH rechargeable pack

Accessories:

- GPS module with street and/or offroad navigation software
- Barcode laser scanner incl. software "Level Observer"
- Bluetooth module for mobile ADCP type "StreamPro"
- Impuls converter incl. "Software Qce" for propulsion measurement
- carrying bag with belt clip and shoulder strap
- memory cards with extended temperature zone
- 12V car charging adaptor

Technical Data - HDA Nomad

Standard features:

- Operating system: Windows Mobile 6.0 (Classic Edition)
- 806 Mhz
- 128 MB high-speed SDRAM
- 1 GB nonvolatile Flash storage
- color TFT display - readable under sunlight conditions
- touchscreen
- rugged waterproof design
- integrated speaker and microphone
- incl. GPS with SiRF III Chipset (WAAS/EGNOS)
- integrated 1D [BarcodeScanner](#),
- integrated [digital Camera](#) 2 Megapixel
- integrated [Bluetooth](#) Interface 2.0
- 15 hours of continuous room-temperature

General data:

- size: 17,6 x 10 x 5,0 cm
- weight: 596 g (incl. Battery)
- operating temperature: -30°C...60°C
- protection class: IP 67



Electronics:

- processor: Intel PXA 320 Xscale CPU, 806 Mhz
- display: 480x640 pixel (VGA) color TFT, LED-light
- batteries: 5200 mAh Li-Ion
- delivery incl. charger and Interface cable (USB-PC)

Accessories:

- carrying bag with belt clip and shoulder strap
- memory card with extended temperature zone
- 12V car charging adaptor
- vehicle mount adjustable

Anderungen im Sinne des technischen Fortschritts vorbehalten



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