



## Mobile water data acquisition

Safe – Easy to use – Fast

GW-Mobil is a mobile data acquisition tool for GW-Base available for Windows Mobile™ handheld computers and Android™ smartphones. Extensive features help you to acquire water levels, on-site parameters, quality and quantity information and other environmental data and to import it directly into GW-Base without additional manual input. Extensive validity checks guarantee plausible, complete and quality checked data.

Some features of GW-Mobil:

- Direct connection to GW-Base
- Management of measuring routes and staff
- Extensive plausibility checks
- Built-in navigation tools guide you to the next station\*
- All station data, maps, etc. available on mobile devices
- Integrated access and display of measurement points in Google Maps™ \*
- Measurement data presented in tables and time series charts
- Immediate validity checks of new records for completeness and plausibility
- Direct transmission from the mobile device to GW-Base
- Route planning and route management
- Integrated barcode scanners allow a quick and accurate identification of appropriately labeled measuring points





### Route planning

An optimal measuring route planning is an essential part of an efficient and cost-saving groundwater monitoring. In GW-Base, measuring routes can be created in table form and/or interactively on a digital map. These routes are then sent to your mobile computer or smartphone with GW-Mobil. Each measurement route can be assigned to an unlimited amount of measurement personnel. Measurement routes and measured values are directly assigned to the corresponding employees, facilitating additional validation checks and quality standards.

### Data Acquisition and Validation

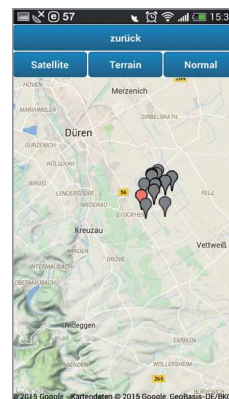
With GW-Mobil you can acquire water levels, numerous other hydrological data, quality parameters and project information. In addition, flow measurements, meter readings and operating hours can be acquired. Furthermore, the acquisition of records with a depth reference (e.g. water quality measurements) allows the creation of hydrochemical depth profiles. Each measurement can optionally be documented with time and place.

Extensive plausibility checks according to user-defined criteria such as deviation limits and threshold values guarantee valid records. Water level measurements are additionally checked for plausibility based on the technical data of the measuring point. Warning messages inform the user instantly on any questionable entry. In the GW-Base user administration you can decide if previous records should be available in the field. These records can optionally be displayed in GW-Mobil in tabular form and as time series plots.

### Station Discovery and Identification

With the transmission of measurement routes from GW-Base to GW-Mobil, maps, photos and basic station data is additionally transferred. This data facilitates the discovery of stations and reduces the danger of confusing them.

The display of the measuring points on Google Maps and the built-in GPS navigation\* to the next measuring point ease the discovery of stations. Additionally, if the measuring points are equipped with bar codes via integrated laser scanners or smartphone cameras. Station confusion can hence be definitively excluded.



### Data Transmission

During the import of data from the mobile device to the GW-Base database the plausibility and completeness of the transmitted records is validated again. If questionable values are detected by the system, detailed logs of subsequent warnings messages can be printed as a report or exported in Excel format.

\*Only available for GW-Mobil for Android

**P11A GM6595520**

2. Nummer: GM6595520  
Zusatz-Bezeichnung:

Lage:   
3 m vom Weg links OF

Grundwasser-Stockwerk:

1. Aquifer:

Geogr. Länge: 2538926.0  
Geogr. Breite: 5626543.0

Höhe Messpunkt: 50.91  
Gelände-Höhe: 50.07

Filterstrecke: 36.05  
Ausbautiefe und -D: 70 DN 250

Barcode:

Zuweisen

Bild Lageplan Schließen

Route: Beispiel Route

Messstelle	Lage
<input checked="" type="checkbox"/> Br. 8	Hinter Baumschule
<input checked="" type="checkbox"/> P11A	3 m vom Weg links OF
<input checked="" type="checkbox"/> P15B	am Waldstand hinter Baumschule OF
<input checked="" type="checkbox"/> P12A	links vom Weg
<input checked="" type="checkbox"/> P14A	links am Weg
<input type="checkbox"/> P18B	OF bei Bushaltestelle
<input type="checkbox"/> P16B	dann rechts ca. 30 m bei Reihweg
<input type="checkbox"/> P13B	OF:
<input type="checkbox"/> Br. 7	OF:

Nur unbearbeitete Messstellen zeigen

Neu initialisieren Barcode Suche

Suchen Schließen

**P14B GM6595593**

Feste Parameter

Zählerstand:  Betriebsstunden:

Lufttemperatur:  °C

Variable Parameter

Messertiefe:  m

Vor-Ort-Parameter

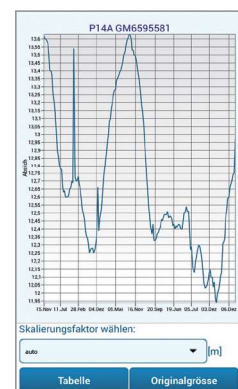
Temp:  °C

Parameter aufnehmen

Infos anzeigen Anzeigen

Autom.-Tastaturfokus

OK Abbrechen



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