

PRIMA 100 LWD



The **new generation** of PRIMA 100 portable FWD is a handy instrument for on-site measurement of bearing capacity to minimize risks and optimize quality. The best of our long FWD production experience has been used for the PRIMA 100.

Better safe than sorry

Using the portable falling weight deflectometer, PRIMA 100, is the quickest, easiest and most safe way to determine bearing capacity and assure unbound layer quality. PRIMA 100 measures the surface modulus and presents the results immediately allowing decisions to be made on site.



Data collection with wireless PDA/Bluetooth.

Unique PRIMA 100 features

Direct measuring of the E modulus. PRIMA 100 is the only portable falling weight deflectometer with a separate load cell. This allows measuring on all layers irrespective of strength, as the drop height is adjustable. The PRIMA 100 method is quicker than the isotope measuring method and requires no reference measurements. The equipment has no radioactive sources requiring safety courses and can be operated by one operator, who will have the possibility of analysing collected data and printing out data files on site. PRIMA 100 can be supplied with GPS allowing storage of measuring positions and data in GIS databases.

Data collection

Data collection with the new PRIMA 100 is done via cable/portable PC or wireless PDA/bluetooth. The latter option allows the operator to work freely on a measuring site. The operator controls the measuring work on the instrument itself. After each drop all data is displayed. Data is stored in the computer. When measuring large amounts of points, it may be an advantage to store data in more files.

Data presentation/documentation

After a measuring campaign or any time during a campaign, data can be seen on the display. Either each individual drop or the entire series of measuring points

is displayed. Data can be transferred to Excel or Word. This allows printing of data for further interpretation or direct presentation in a report as documentation towards e.g. a clientophone. Extension to three geophones is possible

The equipment

is delivered with a 100 mm and 300 mm diameter loading plate, a 10 kg weight, integrated load cell and electronic box and a centre-mounted geophone. Extension with a beam for two extra geophones is possible. A portable PC or a PDA with a data collection program installed is required

Easy power supply

PRIMA 100 is a field instrument and thus the power supply must be handy. Four ordinary AA batteries supply power to electronics and display



PRIMA 100 with 2 extra geophones.