

# Leica Builder M/RM power Construction layout made easy



**SITE PROOF**  
by Leica Geosystems

- when it has to be **right**

**Leica**  
Geosystems

## T100/T200

Rugged, high quality theodolites: The best in their class on the market. In addition to horizontal and vertical angle compensation they also have a graphic levelling aid. Can be set to prompt for PIN-code entry to protect against theft.

## R100/R200

With the R100 and R200 series you can save further time and profit from distance measurement using the built-in laser range finder and the Leica PowerSite software.

## R100M/R200M

These models allow you to store and transfer data. Useful for everyone who needs to optimise workflow. Seamless data exchange e.g. between Client and architect.



**Meet the Builder Family**

# Leica Builder M/RM power

## Construction layout made easy



### Unmatched simplicity

The Builder M/RM power is an instrument that has still to find its equivalent in the construction industry. Whether the task is setting out, control measurements in position and elevation, in civil, structural or landscaping works: The Builder M/RM power excels with its unmatched simplicity of operation – even for users who do not use the instrument every day. You do not have to be an engineer to work efficiently with the Builder M/RM power. Leica PowerSite, the versatile instrument software, complements the system's outstanding performance and accuracy with perfectly matched applications programs to accelerate your work on site.

### How many languages does your crew speak? The Builder speaks plenty ...

The Leica Builder is the only instrument in its class that supports multiple languages. The user can select his preferred language at the press of a button.



### Duration (estimated)

Standard theodolite:

100%

Builder M power / RM power

<20%



### Worth the investment

Tasks which previously involved a great deal of time and cost using ordinary theodolites can be accomplished using the Builder M/RM power with high accuracy, quality, reliability and time savings of up to 80%.

### Good to know ...

#### What is the difference between the M power and the RM power?

Both models can carry out distance measurements to glass prisms for highest accuracy combined with greatest range. The Builder RM power has a reflectorless mode which allows measurements to be made without a prism to difficult to access places such as facade points and wall corners. All you have to do is sight the desired point and take the measurement.

### Features

- Large alphanumeric keypad with high-resolution LCD display
- Leica PowerSite – user-friendly, powerful instrument software
- Distance measurement to glass prisms – For maximum range and highest accuracy



**Leica**  
**PowerSite**  
Software

### What is Leica PowerSite software?

Leica PowerSite Software is the instrument software on the Builder M/RM power. It is designed in a modular format and is used on all models in the Builder family. This unique concept, like the clear layout, offers maximum user friendliness. In addition to numerous standard programs the software can be extended by adding further applications programs. You decide what you need!

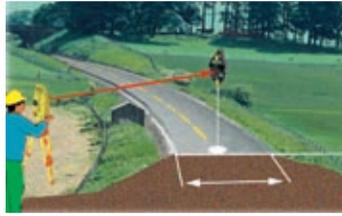


# Efficiency on your site



## Setting out

Setting out made easy! All setting out tasks – whether points, lines or curves – are done quickly and easily.



## As-built

Points, axes or ground profiles are simply and quickly captured or checked.



## Landscaping works

Staking out, setting out of intersection points, parallel offset lines and the calculation of areas and volumes are completed simply and in the shortest possible time.

# Graphical support



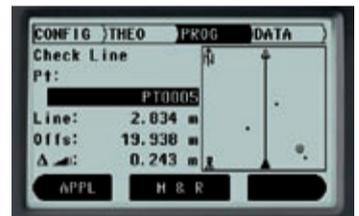
## Graphic levelling aid

Fast, convenient and precise setup, thanks to the unique levelling aid and the laser plummet.



## Simple menu control

Easy, reliable selection of the most suitable program with the help of clear graphics.



## Graphic display

All at a glance – with the graphic window. This includes surveyed points, predefined axes and the Builder station.

# Technical data

<b>Angle measurements and telescope</b>	
(R)100M power standard deviation (ISO 17123-3)	9" (directional deviation < 5 mm at 100 m)
(R)200M power standard deviation (ISO 17123-3)	5" (directional deviation < 3 mm at 100 m)
R300M power standard deviation (ISO 17123-3)	3" (directional deviation < 2 mm at 100 m)
Compensator	Electronic 2-axis compensator / working range +/- 4'
Telescope magnification and field of view	30x, 2.6 m at 100 m
Minimum target distance	1.7 m
<b>Distance measurement without glass prism (red dot), Builder RM power only</b>	
Range	170 m on Kodak grey card, 250 m on flat prism
Standard deviation (ISO 17123-4) (normal/tracking)	3 mm + 2 ppm / 5 mm + 2 ppm
Typical time for a measurement	typ. 3–6 s
<b>Distance measurement on glass prism (fine/fast)</b>	
Range (fine/fast/tracking)	1000 m with CPR111 Builder TrueZero prism, Up to 3500 m with a Leica circular prism
Standard deviation (ISO 17123-4) (fine/fast/tracking)	2 mm + 2 ppm / 5 mm + 2 ppm / 5 mm + 2 ppm
Typical time for a measurement (fine/fast/tracking)	typ. 2.4 s / 0.8 s / < 0.15 s
<b>Other system specifications</b>	
Internal data memory/interface	10,000 data blocks / RS232 or USB up to 19,200 Baud
Display	160 x 280 Pixel or alphanumeric 8 lines x 31 characters, both sides optionally
Weight including battery and tribrach	5 kg
Power supply	NiMH-rechargeable battery or 6 AA batteries
Temperature	-20° C to +50° C (operation), -40° C to +70° C (storage)
Humidity	Max. 95%, non-condensing
Dust and rain protection (IEC 60529)	IP54

Whether you have to stake out a construction site precisely, perform control measurements, collect height and angle data, align concrete forms, install ceilings and partitions, lay gravity flow pipe, locate underground services or complete site preparation and earthworks – Leica Geosystems offers the right instrument for your application.

Easy-to-use, jobsite tough, accurate and reliable – Leica Geosystems instruments ensure the efficient use of your materials and resources. High quality products, such as optical and electronic levels, construction lasers, total stations and distance meters, provide fast results, keep you working and increase your profitability.

**When it has to be right.**

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**Total Quality Management – our commitment to total customer satisfaction.**

Ask your local Leica Geosystems dealer for more information about our TQM program.

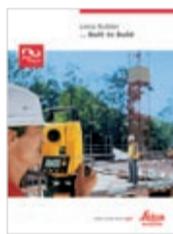
**Distance measurement (reflectorless), RM power only:**  
Laser class 3R in acc. with IEC 60825-1 or EN 60825-1

**Laser plummet:**  
Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1

**Distance meter (fine/fast):**  
Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1



**Leica GPS900**  
Product brochure



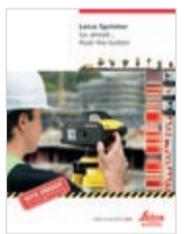
**Leica Builder**  
Product brochure



**Leica Piper 100/200**  
Product brochure



**Leica Rugby 100**  
Product brochure



**Leica Sprinter**  
Product brochure

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**M power**  
The new Builder M power offers an additional alphanumeric keypad and Leica PowerSite software. Distance measurements on this model are carried out with glass prisms, which increases range and accuracy.

**RM power**  
Builder RM power has an alphanumeric keypad and Leica PowerSite software. Distance measurements can be made with or without prisms – flexible and fast.



**"Construction made faster"**  
A textbook that also makes a good field guide.  
Art. No. 746 741

