

# Product information

## Height measuring instrument Digimar 816 CLT600

### Functions

Contacting from below/above,  
Bar width or groove spacing  
incl. bar or groove center, Bore  
or shaft diameter incl. bore or  
shaft center, Reversal point bores  
(top or bottom), Reversal point  
shaft (top or bottom), Calculate  
distances or symmetry, Dynamic  
measurement functions,  
Right angle measurement,  
Straightness measurement,  
Measurement in 1D mode,  
Measurement programs,  
Measurement data processing

### Package contains

height measuring instrument  
incl. operating and display unit,  
carrier 817h1, probe K6/51,  
setting block 817 eb, USB  
cable, instruction manual,  
power source, protection cover,  
Calibration certificate

### Measuring system properties

- Excellent measuring accuracy and reliability due to the optical incremental measuring system with the double reader head
- Dynamic probe system enabling high repeatability
- Air bearing system for light and smooth movement
- Measuring head guided in precision ball bearings
- Motorized measuring slide simplifies measurement runs
- Probe constant remains after the instrument is switched off
- Integrated rechargeable battery with a long operating life for mains-independent measurement
- Temperature compensation via integrated temperature sensor



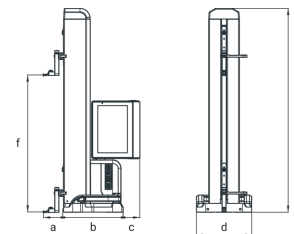
Item no.: 4429631

### Technical data

|                                     |  |
|-------------------------------------|--|
| <b>Measuring range up to</b>        | 600 mm   |
| <b>Measuring range up to</b>        | 24 inch  |
| <b>Application range from</b>       | 170 mm   |
| <b>Application range up to</b>      | 770 mm   |
| <b>Application range from</b>       | 6.8 inch   |
| <b>Application range up to</b>      | 30.8 inch  |
| <b>Resolution</b>                   | 0.0001 mm, 0.0005 mm, 0.001 mm, 0.005 mm, 0.01 mm                |
| <b>Resolution</b>                   | 0.00001 inch, 0.00005 inch, 0.0001 inch, 0.0005 inch, 0.001 inch |
| <b>Repeatability planes</b>         | 1 µm   |
| <b>Repeatability bores</b>          | 2 µm   |
| <b>Perpendicularity error in µm</b> | 8 µm   |
| <b>Operation time Max</b>           | 14 h   |
| <b>Data interface</b>               | 3x USB 2.0, wireless   |
| <b>Measuring system execution</b>   | incremental scale with optical scanning                          |
| <b>Product weight</b>               | 26.00 kg   |

### Dimensions

|                           |        |
|---------------------------|--------|
| <b>Dimensions e in mm</b> | 938 mm |
| <b>Dimensions b in mm</b> | 278 mm |
| <b>Dimensions a in mm</b> | 89 mm  |
| <b>Dimensions f in mm</b> | 610 mm |
| <b>Dimensions c in mm</b> | 77 mm  |
| <b>Dimensions d in mm</b> | 255 mm |



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### Accessories

| Order no. | Designation  | Product type |
|-----------|--|--------------|
| 4102220   | Wireless receiver for measuring instruments with integrated wireless | i-Stick      |
| 4221525   | Surface plate made from granite                                      | 107 G        |
| 4221526   | Surface plate made from granite                                      | 107 G        |