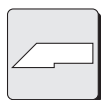


Height Measuring and Scribing Instrument Digimar 814 N / 814 G



814 N



814 G

Applications

Ideal for measuring:

- Heights
- Center distances between bores and surfaces, widths of ledges, plus marking and scribing of work pieces

Features

814 N With extra rugged, cast iron base with three-point support. To be used on base plates, machine beds and work piece surfaces.

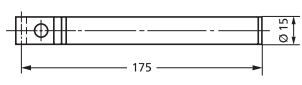
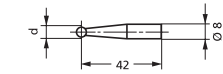
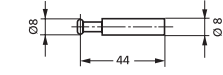
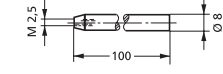
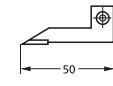
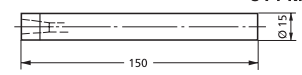
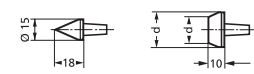
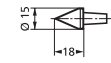
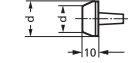
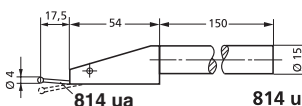
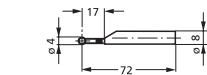
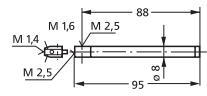
814 G Table plate is made of fine grained black granite (greenstone) which is extremely hard and stable.

- High accuracy
- Incremental inductive measuring system
- Measuring head with an ball bush guide
- Resistance free measuring system
- Large, easy to read digital display
- Measuring system and display unit are incorporated in the measuring head
- Easy to operate due to the hand crank on the side of the measuring head, thus making height adjustment simple
- Constant measuring force; acting upwards or downwards as required
- Measuring head can be locked in position, ideal for scribing tasks
- With fine adjustment
- Data transmission via Opto RS232C interface
- Digital Preset
- Zero setting in any position
- MAX, MIN and MAX-MIN functions
- Enter tolerance limit for 1 characteristic
- Switch between mm/inch
- Mains independent due to being battery operated
- Universal application due to a broad range of accessories

Technical Data

| | | 814 N | 814 G | 814 N | 814 G |
|-------------------------------|--------------------|--|---------------------|-----------------------------------|---------------------|
| Measuring range | mm/ <i>inch</i> | 320 / 12.6" | | 620 / 24.4" | |
| Resolution | mm (<i>inch</i>) | 0.01 / 0.001 (0.0005" / 0.00005") | | | |
| Measuring error | µm | 20 / 0.0008" | | 30 / 0.0012" | |
| Repeatability | µm | | | 5 / 0.0002" | |
| Perpendicularity error | µm | frontal 20 (300 mm) | | frontal 30 (600 mm) | |
| Operating time of the battery | h | 2000 | | | |
| Measuring force | N | ca. 3 | | | |
| Working temperature | °C/°F | 20 ± 1 / 68 ± 33.8 | | | |
| Operating temperature | °C/°F | 5 ... 40 / 41 ... 104 | | | |
| Measuring system | | inductive | | | |
| Total height | mm/ <i>inch</i> | 513 / 20.20" | 558 / 21.97" | 813 / 32.01" | 858 / 33.78" |
| Cast iron base(L x W) | mm/ <i>inch</i> | 205 x 175 / 8.07" x 6.89" | | 205 x 175 / 8.07" x 6.89" | |
| Granite plate (L x W) | mm/ <i>inch</i> | 200 x 300 / 7.87" x 11.81" | | 200 x 300 / 7.87" x 11.81" | |
| Grade of accuracy | | 1 DIN 876 | | | |
| Weight | kg/lbs | 6.2 / 13.22 | 14 / 30.86 | 10.5 / 23.15 | 18.3 / 35.27 |
| Order-no. | | 4426540 | 4426541 | 4426542 | 4426543 |

Accessories for Height Measuring and Scribing Instrument Digimar 814 N / 814 G

| | | | | Order no. | |
|------------------|--|---|--|---|---|
| 814 t | Probe arm with joint for mounting probes, dial indicators, dial comparators, and test indicators. Length of mounting shank 150 mm (.591") Mounting bore 8 mm (.315") | | | 4426510* |  |
| 814 m | Spherical probe To mount in probe arm 814 t | 2 mm ball (.0787") 3 mm ball (.118") 4 mm ball (.157") 5 mm ball (.197") 6 mm ball (.236") 7 mm ball (.276") 8 mm ball (.315") | | 4426525 4426526 4426512 4426527 4426511 4426528 4426509* |    |
| 814 s | Disc probe for measuring heights, distances, surfaces and edges. Especially recommended for narrow shoulders, e.g. on centering edges. | | | 4426513 |  |
| 814 h | Probe holder M 2.5 for mounting styli of dial indicators and dial comparators for special applications. | | | 4426514 | |
| 814 a | Scriber for scribing and marking of work pieces. Carbide tipped. To be mounted on the Probe arm 814 t | | | 4426515 |  |
| 814 kh | Holder | | | 4426516 |  |
| 817 ks1 | Measuring taper | 0 – 15 (0 - .591") | | 4426071 |  |
| 817 ks2 | Measuring taper | 14 – 20 (.551" - .787") | | 4426072 |  |
| 817 ks3 | Measuring taper | 18 – 24 (.709" - .945") | | 4426073 | |
| 817 ks4 | Measuring taper | 23 – 30 (.906" - 1.181") | | 4426074 | |
| 814 u | Two direction probe for measuring outside and inside diameters, width of ledges, recesses and slots. Actual ball diameter does not influence the results. | 4 mm ball (.157") | | 4426517 |  |
| 814 ua | Interchangeable probe arm for use in conjunction with the two direction probe 814 u | 2 mm ball (.0787") | | 4426518 | |
| 817 Cl-m | Spherical probe | 4 mm ball (.157") | | 4426436 |  |
| 817 Cl-am | Holder with connection thread | M 2.5, M 1.6, M 1.4 | | 4426434 | |
| 817 Cl-sa | Stylus with exchangeable measuring pin | | | 4426433 | |
| 817 Cl-p | Stylus with parallel measuring faces Battery 3 V, type CR 2032 | | | 4426435 |  |
| | Dust cover | 0–320 mm (0 - 12.60") | | 4426616* | |
| | Dust cover | 0–620 mm (0 - 24.41") | | 4426619* | |
| 814 Nf | Cast iron base | | | 4426506** | |
| 814 Gf | Table plate | | | 4426507** | |
| 814 X | Column with measuring head | 320 mm (0 - 12.60") | | 4426544 | |
| 814 X | Column with measuring head | 620 mm (0 - 24.41") | | 4426545 | |
| 16 ESv | Data connection cable Length 2 m / 6.56 ft | Opto RS232C | | 4102510 | |

* Scope of supply
** for upgrade