

# Product information

## Mobile roughness measuring instrument MarSurf Pocket Surf IV

### Product features

- Sturdy housing made of cast aluminum guarantees accurate and reliable measurement operation over many years
- Measurement of four selectable parameters: Ra, Rmax/Ry, Rz
- Reading of all the parameters after the measurement is completed
- Measuring length adjustable based on 1x, 3x or 5x the cutoff wavelength 0.8 mm/0.030"
- Can be implemented in any position – horizontal, vertical and upside down
- Four locking probe positions – axial or at 90°, 180°, or 270° angle
- Even difficult to reach surfaces on the inner and outer diameters are accessible
- MarConnect data output for simple data transmission, compatible with standard data recording systems
- Easy to read LCD displays the measured roughness parameters in  $\mu\text{m}$  or  $\mu\text{inch}$  immediately after scanning the surface
- Messages indicating when ranges exceed or fall below a limit and a battery warning symbol are also displayed
- Simplified calibration process
- Improved battery life with easy to replace 9V battery



Item no.: **2191802**

### Technical data

|   |  |
|---|--|
| <b>Measuring principle</b>                              | Skid probe system  |
| <b>Unit of measurement</b>                              | metrisch/inch  |
| <b>Measuring force (N)</b>                              | 15 mN  |
| <b>Number n of sampling length according to ISO/JIS</b> | Selected: 1 - 5  |
| <b>positioning speed X-axis max.</b>                    | 1 mm/s   |
| <b>Positioning speed X axis</b>                         | till 1 mm/s  |
| <b>Data interface</b>                                   | RS-232C, USB   |
| <b>Probe</b>  | Piezoelectric skid probe   |
| <b>Weight (gross)</b>                                   | 1.03 KG  |
| <b>Dimensions in mm</b>                                 | 140 x 76 x 6.35 mm   |
| <b>Stylus</b>   | 5 $\mu\text{m}$ / .0002"   |
| <b>Parameters</b>                                       | Ra, Ry, Rmax, Rz   |
| <b>Rechargeable batteries</b>                           | Battery, 9V  |
| <b>Measuring range mm</b>                               | Ra - 6.35 $\mu\text{m}$ / 250 Ry, Rmax, Rz - 25.3 $\mu\text{m}$ / 999 $\mu\text{in}$ |
| <b>Profile resolution</b>                               | 0.01 $\mu\text{m}$ / 1 $\mu\text{in}$  |

### Application

- Pocket-sized, economically priced, completely portable instrument
- Performs traceable surface roughness measurements on a wide variety of surfaces
- Can be used confidently in production, on the shop floor and in the laboratory

### Dimensions

|                         |                    |
|-------------------------|--------------------|
| <b>Dimensions in mm</b> | 140 x 76 x 6.35 mm |
|-------------------------|--------------------|

### Accessories

| Order no. | Designation                  | Product type |
|-----------|------------------------------|--------------|
| 4346020   | Data connection cable RS232C | 2000 r       |
| 4346023   | Data connection cable USB    | 2000 USB     |