

# 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  $\text{inch}$  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.: **2191800**

### Technical data

<b>Positioning speed</b>	1.0
<b>Measuring principle</b>	Skid probe system
<b>Probe</b>	Piezoelectric skid probe
<b>Parameters</b>	Ra, Ry, Rmax, Rz
<b>Measuring units</b>	metric/inch
<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 $\mu\text{in}$
<b>Number n of sampling length according to ISO/JIS</b>	Selected: 1 - 5
<b>Stylus</b>	10 $\mu\text{m}$ / .0004"
<b>Measuring force (N)</b>	15 mN
<b>Data interface</b>	RS-232C, USB
<b>Rechargeable batteries</b>	Battery, 9V
<b>Dimensions in mm</b>	140 x 76 x 6.35 mm
<b>Weight (gross)</b>	1.03 KG

### Accessories

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

### 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