

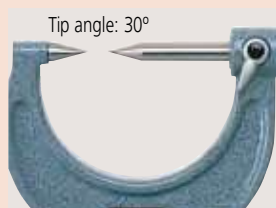
**IP Codes (series 342)**

Level 6: Dust-proof.

No ingress of dust allowed.

Level 5: Protected against water jets.

Water projected in jets against the enclosure from any direction shall have no harmful effects.

**Technical Data****Battery for series 342****SR44** (1 pc), **938882**, for initial operational checks (standard accessory)

Battery life: Approx. 2.4 years under normal use

(for series 342)

Length standard: Electromagnetic rotary sensor (for series 342)

Standard accessories: Reference bar, 1 pc (except for measuring range 0-25mm (0-1") models) Spanner (301336), 1 pc

**Optional accessories**Connecting cables for **series 342**1m: **05CZA662**2m: **05CZA663****USB Input Tool Direct****USB-ITN-B** (2m): **06ADV380B**SPC cables for **U-WAVE** w/ data switch (160mm):**02AZD790B**For foot switch: **02AZE140B**

(Refer to page B-68 for details.)

**Point Micrometers**  
**SERIES 342, 142, 112**

- Pointed spindle and anvil for measuring the web thickness of drills, small grooves, keyways, and other hard-to-reach features.
- The measuring points (carbide tipped) have approximately 0.3mm radius.

- series 342: IP65 Digimatic micrometers
- Equipped with Ratchet Stop for constant measuring force.

**SPECIFICATIONS**

| Metric                             |            |            |           |       |
|------------------------------------|------------|------------|-----------|-------|
| Order No.                          | Range      | Resolution | Accuracy* | Point |
| Digimatic (LCD) (With carbide tip) |            |            |           |       |
| <b>342-251-30</b>                  | 0 - 25mm   | 0.001mm    | ±2μm      | 15°   |
| <b>342-252-30</b>                  | 25 - 50mm  |            |           |       |
| <b>342-253-30</b>                  | 50 - 75mm  |            | ±3μm      | 15°   |
| <b>342-254-30</b>                  | 75 - 100mm |            |           |       |
| <b>342-261-30</b>                  | 0 - 25mm   | 0.001mm    | ±2μm      | 30°   |
| <b>342-262-30</b>                  | 25 - 50mm  |            |           |       |
| <b>342-263-30</b>                  | 50 - 75mm  |            | ±3μm      | 30°   |
| <b>342-264-30</b>                  | 75 - 100mm |            |           |       |

\* Excluding quantizing error

| Metric                    |            |            |          |       |
|---------------------------|------------|------------|----------|-------|
| Order No.                 | Range      | Graduation | Accuracy | Point |
| Analog                    |            |            |          |       |
| 112-153                   | 0 - 25mm   |            | ±3μm     | 15°   |
| 112-154                   | 25 - 50mm  |            |          |       |
| 112-155                   | 50 - 75mm  |            | ±4μm     | 15°   |
| 112-156                   | 75 - 100mm |            |          |       |
| 112-201                   | 0 - 25mm   |            | ±3μm     | 30°   |
| 112-202                   | 25 - 50mm  |            |          |       |
| 112-203                   | 50 - 75mm  |            | ±4μm     | 30°   |
| 112-204                   | 75 - 100mm |            |          |       |
| Analog (With carbide tip) |            |            |          |       |
| 112-165                   | 0 - 25mm   | 0.01mm     | ±3μm     | 15°   |
| 112-166                   | 25 - 50mm  |            |          |       |
| 112-167                   | 50 - 75mm  |            | ±4μm     | 15°   |
| 112-168                   | 75 - 100mm |            |          |       |
| 112-213                   | 0 - 25mm   |            | ±3μm     | 30°   |
| 112-214                   | 25 - 50mm  |            |          |       |
| 112-215                   | 50 - 75mm  |            | ±4μm     | 30°   |
| 112-216                   | 75 - 100mm |            |          |       |
| Mechanical counter model  |            |            |          |       |
| 142-153                   | 0 - 25mm   |            | ±3μm     | 15°   |
| 142-201                   |            |            |          | 30°   |

| Inch/Metric                        |        |                 |           |       |
|------------------------------------|--------|-----------------|-----------|-------|
| Order No.                          | Range  | Resolution      | Accuracy* | Point |
| Digimatic (LCD) (With carbide tip) |        |                 |           |       |
| <b>342-351-30</b>                  | 0 - 1" | .00005"/0.001mm | ±.0001"   | 15°   |
| <b>342-352-30</b>                  | 1 - 2" |                 |           |       |
| <b>342-353-30</b>                  | 2 - 3" |                 | ±.00015"  | 15°   |
| <b>342-354-30</b>                  | 3 - 4" |                 |           |       |
| <b>342-361-30</b>                  | 0 - 1" | .00005"/0.001mm | ±.0001"   | 30°   |
| <b>342-362-30</b>                  | 1 - 2" |                 |           |       |
| <b>342-363-30</b>                  | 2 - 3" |                 | ±.00015"  | 30°   |
| <b>342-364-30</b>                  | 3 - 4" |                 |           |       |

\* Excluding quantizing error

| Inch                      |         |            |          |       |
|---------------------------|---------|------------|----------|-------|
| Order No.                 | Range   | Graduation | Accuracy | Point |
| Analog                    |         |            |          |       |
| 112-177                   | 0 - 1"  |            | ±.00015" | 15°   |
| 112-178                   | 1" - 2" |            |          | 30°   |
| 112-225                   | 0 - 1"  |            |          |       |
| 112-226                   | 1" - 2" |            |          |       |
| Analog (With carbide tip) |         |            |          |       |
| 112-189                   | 0" - 1" | .001"      | ±.00015" | 15°   |
| 112-190                   | 1" - 2" |            |          |       |
| 112-191                   | 2" - 3" |            |          | 30°   |
| 112-237                   | 0 - 1"  |            |          |       |
| 112-238                   | 1" - 2" |            |          |       |
| Mechanical counter model  |         |            |          |       |
| 142-177                   | 0 - 1"  |            | ±.00015" | 15°   |
| 142-225                   |         |            |          | 30°   |