

HT-4200 Non-Contact Tachometer

Specifications

| Detection method | Red visible ray photoelectric reflection method | | | | | | | | | | | | | | |
|---|--|-------------------|----------------------------|--------------------|---|--------------------|---|--------------------|---|-------------------|---|------------------|---|------------------|---|
| Detection distance | 20 to 300 mm | | | | | | | | | | | | | | |
| Display | 5-digit LCD (10.5-mm character height), fixed measurement unit (r/min) | | | | | | | | | | | | | | |
| Measurement update time | 1-s automatic update (2-s update when the circumferential speed is lower than 60/number of reflective marks r/min) | | | | | | | | | | | | | | |
| Measurement range | <p>Measurement resolution: 1 r/min</p> <p>The affixing of multiple reflective marks enables measurement of lower rotation speeds.</p> <table border="1"> <thead> <tr> <th>Measurement speed</th> <th>Number of reflective marks</th> </tr> </thead> <tbody> <tr> <td>30 to 50,000 r/min</td> <td>1</td> </tr> <tr> <td>15 to 25,000 r/min</td> <td>2</td> </tr> <tr> <td>10 to 16,667 r/min</td> <td>3</td> </tr> <tr> <td>8 to 12,500 r/min</td> <td>4</td> </tr> <tr> <td>5 to 8,333 r/min</td> <td>6</td> </tr> <tr> <td>4 to 6,250 r/min</td> <td>8</td> </tr> </tbody> </table> | Measurement speed | Number of reflective marks | 30 to 50,000 r/min | 1 | 15 to 25,000 r/min | 2 | 10 to 16,667 r/min | 3 | 8 to 12,500 r/min | 4 | 5 to 8,333 r/min | 6 | 4 to 6,250 r/min | 8 |
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| 4 to 6,250 r/min | 8 | | | | | | | | | | | | | | |
| Measurement accuracy (when one reflective mark is used) | <p>30 to 12,499 r/min speeds : Within ± 1 r/min</p> <p>12,500 to 24,999 r/min speeds : Within ± 2 r/min</p> <p>25,000 to 50,000 r/min speeds : Within ± 4 r/min</p> | | | | | | | | | | | | | | |
| Measurement of the number of pulses | The number of reflective marks used can be specified in order to perform measurement from lower rotation speeds. Specifiable values: 1, 2, 3, 4, 6, 8 P/R | | | | | | | | | | | | | | |
| Memory function | 10 data can be memorized. | | | | | | | | | | | | | | |
| Data hold function | Auto power off when 30 seconds have elapsed after the end of measurement. | | | | | | | | | | | | | | |
| Low battery indication | The "LOW" mark is displayed when the battery voltage falls below 3.3 V. | | | | | | | | | | | | | | |
| Over-range display | An "ERROR" mark is displayed. | | | | | | | | | | | | | | |
| Power source | Three AAA-type batteries (1.5 V), Continuous measurement time: Approx. 20 hours (when alkaline batteries are used, at 20°C) | | | | | | | | | | | | | | |
| Operating temperature | 0 to +40°C | | | | | | | | | | | | | | |
| Storage temperature | -10 to +55°C | | | | | | | | | | | | | | |
| Outer dimensions | 62 (W) x 129 (L) x 26.4 (D) mm | | | | | | | | | | | | | | |
| Weight | Approx. 130 g (including batteries) | | | | | | | | | | | | | | |
| Accessories | <ul style="list-style-type: none"> • Reflective marks 1 sheet (25 marks) • AAA-type batteries 3 pieces • User's manual 1 copy | | | | | | | | | | | | | | |