



The digital display is easy to read. A high accuracy of $\pm 0.01\%$ is guaranteed by crystal controlled oscillator circuits. The whole range from 100 rpm up to the maximum speed can be selected only by turning a knob. A compact, long life, high performance xenon flash lamp is used. Applicable not only as rotation meter, but also to observe other moving bodies.

- * Application in the manufacturing and test process of motors as rotation meter.
- * Measurement for design, research, test and maintenance of rotating and vibrating machinery.
- * Observation of flowing liquids, foams and powderlike materials.
- * Research and experiment at educational institutions and laboratories.

STANDARD TYPE

| Model | HD-100 | HD-150 | HD-300 |
|------------------------|-------------------|-------------------|-------------------|
| Revolution range (rpm) | 100~10,000 | 100~15,000 | 100~30,000 |
| Max. Indicate | 9999 (4 digits) | 99999 (5 digits) | 99999 (5 digits) |
| Ext. input synchro | strobe 0~170Hz | strobe 0~250Hz | strobe 0~500Hz |
| Frequency count | 0~10kHz | 0~100kHz | 0~100kHz |

- Accuracy: 0.01% + 1 rpm.
- Gate time: 1 sec.
- 7 segment LED display.
- Lamp: Xenon flash lamp SX-5
- Lamp life: 1000h at 3000rpm.
- Lumination time: Pulse width approx. 8 μ sec.
- Lamp input power: max. 12W continuously
- External input signal: TTL falling flank
- External dimension: W100×H100×D170mm
- Weight: 1.2kg
- Power supply: AC 100, 110, 117, 220, 240V according to order. 30 VA

POWER UP TYPE

| Model | Light value ratio compared w. HD-100 | Revolution range (rpm) | Ext. input synchro (Hz) |
|----------|--------------------------------------|------------------------|-------------------------|
| HD-100-2 | Double value | 50~5,000 | 0~100 |
| HD-100-3 | Triple value | 30~3,300 | 0~60 |
| HD-100-4 | Quadruple value | 25~2,500 | 0~40 |

■ The luminance power per flash is increased as compared with that of HD-100 Standard Type. Increased luminance power is especially useful for applications with low flash frequencies.

GRADE UP TYPE

| Model | Revolution range (rpm) | Auto power range (rpm) | Lightvalue ratio compared w. HD-100 |
|---------|------------------------|------------------------|-------------------------------------|
| HD-100A | 100~10,000 | 100~3,300 | 3 |
| | | 3,300~5,000 | 2 |
| | | 5,000~10,000 | 1 |
| HD-150A | 100~15,000 | 100~5,000 | 2.5 |
| | | 5,000~9,000 | 1.5 |
| | | 9,000~15,000 | 1 |

■ According to the flash frequency the luminance power per flash changes automatically to three levels. The luminance power at low and medium flash frequencies is 1.5 to 3 times as strong as that at high flash frequencies.

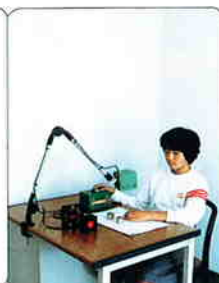
OPTION ACCESSORIES



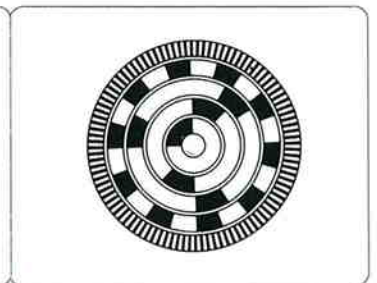
■ **Separate Lamp House LH-10**
The flash lamp unit can be separated from the control and display unit.



■ **Mounting Arm SA-2**
Suitable to hold the separated flash lamp house unit.



■ **Pod SP-3**
The flash angle can be freely adjusted. Also usable as a desk stand.



■ **Strobo Disk E-100**
Rotation speeds as slow as 10 to 300rpm can be easily measured.