

# H100B

## Pulse Oximeter

Version 1.2



## Main Unit Specification

### Physical Specifications

|           |                                   |
|-----------|-----------------------------------|
| Dimension | 160 mm(L) × 70 mm(W) × 37.6 mm(H) |
| Weight    | 165 g (without battery)           |

### Battery

#### Alkaline batteries

|                        |                |
|------------------------|----------------|
| Quantity               | 4              |
| Capacity               | 2600 mAh       |
| Typical operation time | 48 h or longer |

#### Ni-MH rechargeable battery

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Capacity             | 1500 mAh                                              |
| Typical battery life | 30 h or longer                                        |
| Charge time          | No more than 2.5 h to 80%<br>No more than 4 h to 100% |

### Charger Stand

|                |                                              |
|----------------|----------------------------------------------|
| Model          | CS-01                                        |
| Input voltage  | (100 to 240) VAC, 50 Hz/60Hz, 0.4 A - 0.15 A |
| Output voltage | 6 VDC                                        |
| Output current | 0.8 A                                        |
| Output power   | 4.8 W                                        |

### Display

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| Screen Type        | 128×64 dot-matrix LCD, with white LED backlight              |
| Large Numeric Mode | SpO <sub>2</sub> , PR and Bar graph displayed                |
| Waveform Mode      | SpO <sub>2</sub> , PR, Bar graph and Plethysmogram displayed |

### Data Storage

|              |           |
|--------------|-----------|
| Data Storage | 300 hours |
| Patient ID   | 100       |

### SpO<sub>2</sub>

|                   |                                                                                                                 |
|-------------------|-----------------------------------------------------------------------------------------------------------------|
| Measurement Range | 0% ~ 100%                                                                                                       |
| Resolution        | 1%                                                                                                              |
| Accuracy          | Adult and Pediatric: ±2% (70%~ 100%)<br>Undefined (0%~ 69%)<br>Neonate: ± 3% (70%~ 100%)<br>Undefined (0%~ 69%) |

### Pulse Rate

|                   |                  |
|-------------------|------------------|
| Measurement Range | 25 bpm ~ 300 bpm |
| Resolution        | 1 bpm            |
| Accuracy          | ±2 bpm           |

### Safety Specifications

|                          |                                                                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Compliant with Standards | IEC 60601-1:2005+A1:2012, EN 60601-1:2006+A1:2013, IEC 60601-1-2: 2014, EN 60601-1-2: 2015, ISO 80601-2-56:2017+A1:2018, ISO 80601-2-61: 2017 |
| Type of Protection       | Internally powered equipment                                                                                                                  |
| Degree of Protection     | Type BF-Applied part                                                                                                                          |
| Ingress Protection       | IP22                                                                                                                                          |

### Environmental Specifications

|             |                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------|
| Temperature | Working: +0°C to +40°C (32°F ~ 104°F)<br>Transport and Storage: -25°C to +70°C (-13°F ~ 158°F)     |
| Humidity    | Working: 15%RH to 95%RH (non-condensing)<br>Transport and Storage: 15%RH to 95%RH (non-condensing) |
| Altitude    | Working: 70 kPa to 106 kPa<br>Transport and Storage: 70 kPa to 106 kPa                             |