

ABSTRACT

A RING-TYPE PULSE OXIMETER

5 The invention relates to the medical device field, and discloses a ring-type pulse
oximeter, including a rigid ring body. A measurement unit is arranged inside the rigid ring
body, and an elastic device, a photodiode, and at least one light emitting diode are
protrudingly disposed on an inner circumferential surface of the rigid ring body. When the
ring-type pulse oximeter is worn, the elastic device is pressed, so that the photodiode and
10 the at least one light emitting diode fit with a finger, light emitted by the light emitting
diode is attenuated by the finger, then received by the photodiode and processed by the
measurement unit to calculate blood oxygen saturation. In the invention, the finger can be
locally stressed, and closely fits with a photoelectric sensor, so as to implement wearing
comfort and adaptability to different finger shapes, and improve measurement accuracy.

15 (FIG. 1)