

# 05-106 and 05-104

## Beeper mR and Beeper III Personal Radiation Monitors

### Technical Data



#### 05-106 Beeper mR

The slim, compact Beeper mR is the ideal personal monitoring device for alerting personnel to the presence of x-ray or gamma radiation in medical, industrial or research settings. It accurately measures and displays the accumulated radiation dose received on an easy-to-read LCD display. The only control is a recessed switch for operation (on and off), which ensures that the instrument cannot be turned off accidentally.

Beeper mR is an enhanced version of the highly popular Beeper III and utilizes the same proven technology. The frequency of loud “beeps” increases as a function of the radiation field intensity: from one beep every 15 minutes to 30 minutes in the presence of background radiation, to becoming a continuous sound in high radiation fields. A series of quiet “clicks” indicates the instrument is properly functioning.

#### 05-104 Beeper III

The Beeper III is a simple, convenient instrument for alerting personnel to the presence of x-ray or gamma radiation. The instrument operates continuously and provides a clear, audible indication of dose rates. While it produces a “bleep” every 15 minutes for normal background radiation, the frequency of “beeps” increases with the dose rate until a continuous tone is achieved in high radiation fields.

### Key features

#### 05-106 Beeper mR

- Continuously monitors x-ray and gamma radiation exposure and provides instant, accurate readings
- LCD display can be easily read with the instrument in-pocket
- Sturdy casing with pocket clip protects against damage
- Features visible and audible “battery low” indicators
- Energy and polar responses provide reliable readings that match those from TLDs and film badges

#### 05-104 Beeper III

- Provides a continuous indication of gamma or x-ray radiation dose rate
- Lightweight, pocket-size unit that is secured by a clip
- No controls or adjustments are required

## Specifications

<b>05-106 Bleeper mR</b>	
<b>Bleep rates for background radiation</b>	Approx. 1 bleep every 15 minutes to 30 minutes
<b>1 mR/h</b>	Approx. 1 bleep every 20 seconds
<b>100 mR/h and above</b>	Continuous signal to at least 60 Sv/h (6000 R/h)
<b>Energy range</b>	45 keV to 6 MeV (± 25 %)
<b>Doserate response</b>	Linear to 5 R/h (± 20 %)
<b>Display</b>	LCD 0.1 mR to 999,999.9 mR
<b>Battery</b>	Three alkaline batteries, size AAA Typical battery life is one year
<b>Temperature range</b>	-20 °C to 50 °C (4 °F to 122 °F)
<b>Dimensions (WxD)</b>	3.56 cm x 15.24 cm (1.4 in x 6 in)
<b>Display area</b>	1.52 cm x 2.29 cm (0.6 in x 0.9 in)
<b>Weight</b>	0.11 kg (0.25 lb)
<b>05-104 Bleeper III</b>	
<b>Sensitivity to background radiation</b>	Approx. 1 bleep per 15 minutes
<b>1 mR/hr</b>	Approx. 1 bleep per 20 seconds
<b>100 mR/hr and up</b>	Continuous signal (to at least 6000 R/hr)
<b>Energy range</b>	45 keV/h to 6 MeV
<b>Temperature range</b>	-20 °C to 50 °C (-4 °F to 122 °F)
<b>Batteries</b>	Two alkaline AAA Battery life approximately one year
<b>Construction</b>	Plastic case with clip
<b>Dimensions (WxDxH)</b>	2.54 cm x 13.97 cm x 1.60 cm (1 in x 5.5 in x 0.63 in)
<b>Weight</b>	0.08 kg (0.17 lb)

## Ordering information

### Model

**05-106** Bleeper mR Radiation Monitor  
**05-106-2200** Bleeper µSv Radiation Monitor  
**05-104** Bleeper III Personal Radiation Monitor

### About Fluke Biomedical

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