

MODEL 3500-1000 Gate Monitor

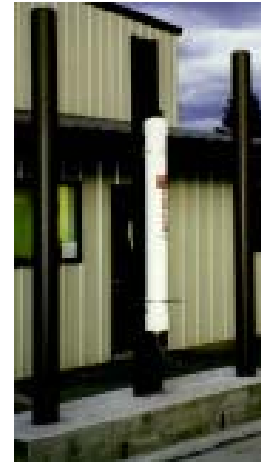
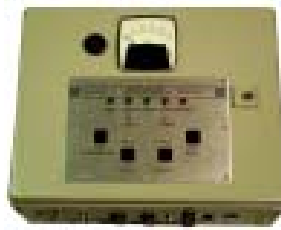


Ludlum Measurements, Inc.

SYSTEM INCLUDES:

- 1 ea. Microprocessor based electronics
- 2 ea. 480 in³(7866 cm³) plastic detectors with 200'(61 m) cables
- 1 ea. 5" (12.7 cm) diameter red alarm strobe w/50'(15 m) cable
- 1 ea. Infrared Motion Sensors
- 1 ea. 40 column date/time printer
- 1 ea. 10 µCi(370 kBq) ¹³⁷Cs check source

PART NO. 48-3046



Option: Additional set of sensors for speed monitoring



Date/Time Printer



Red Alarm Strobe

INDICATED USE: Low level radiation monitoring

SYSTEM OPERATION: The system will continuously monitor background levels until the infrared sensor identifies an object. It will then automatically switch to checking the object for radiation caused by contamination until the object is clear of the sensor at which time the system will return to monitoring background

DETECTORS: 2 ea. 480 in³ plastic scintillation detectors with 1/8" lead shielding in weathertight housings.

AUDIO: Unimorph type speaker (*greater than 68 dB at 2 feet*)

METER: 6" (15.2cm) arc 1 mA analog type

METER DIAL: 0 - 25 kcps

CHECKING: (*green LED*) indicates vehicle is passing through system

SYSTEM OK: (*green LED*) indicates that system is functioning properly

CHANNEL 1: Pushbutton to check the count rate on channel 1

CHANNEL 2: Pushbutton to check the count rate on channel 2

ALARM: Indicated by red LED's, red flashing lamp, and audible tone (*can be internally set from 1 - 8.5 deviations above background in half step increments*)

AUDIO ACKNOWLEDGE: Pushbutton to silence the audio after an alarm has been indicated

ALARM RESET: Pushbutton to reset the alarm.

FAIL 1: (*yellow LED*) Indicates when the signal is not received from detector 1

FAIL 2: (*yellow LED*) Indicates when the signal is not received from detector 2

RS-232: 9 pin connector to allow for connection of computer for data logging

CONTROLS: 5 pin connector allowing for connection of infrared sensors

RELAYS: 3 pin connector allowing for connection of red alarm strobe or other external alarm indicators

POWER: 95 - 135 VAC (*178 - 240 VAC available on request*), 50-60 Hz single phase (*less than 100 mA*)

ELECTRONICS CONSTRUCTION: Steel NEMA 12 enclosure

TEMPERATURE RANGE: 5°F(-15°C) to 122°F(50°C)

May be certified to operate from -40°F(-40°C) to 150°F(65°C)

SIZE:

Electronics: 15"(38.1cm)H X 12"(30.5cm)W X 6.5"(16.5cm)D

Detectors (ea.): 72"(183 cm)H X 8"(20.3 cm)Diameter

WEIGHT:

Electronics: 18lbs(8.2kg)

Detectors (ea.): 65 lbs (29.5 kg)