

# Model 9-7 Ion Chamber Display Unit



Ludlum Measurements, Inc.

## Features

- Digital Readout and Controls
- Direct Replacement of Eberline RO-7
- Handle & Fold-up Support Tripod
- Backlit Display
- Separate Battery Compartment
- Display Range: 0 to 19.99 kR/hr



## Introduction

The Ludlum Model 9-7 Ion Chamber Display Unit is a digital readout and control unit that can be attached to any compatible ion chamber (sold separately). This instrument provides remote monitoring in high-range beta and gamma fields. The gamma measurement range is 0–19.99 kR/hr, covered by three separate detectors. The 9-7 automatically recognizes which detector is connected so no recalibration or adjustment is required when switching detectors. These ion chambers can either be connected directly to the instrument, or via rigid extensions, flexible cables, or both, to achieve the length required. The detectors will remain functional with extensions/cables up to 153 m (500 ft) in length. The backlit LCD display presents three easily-readable characters together with a floating decimal point to indicate the measurement along the R/hr scale. When connected to the highest range detector, a separate kR/hr indicator is prominently illuminated to warn the operator of the higher scale in use. A rotary switch for selecting instrument On/Off and Battery Status, an LCD backlight switch, and a Zero Adjust knob are the extent of the operator controls.

## Specifications

Part Number. 48-3689

**DISPLAY:** liquid crystal 3½ digits, 1.3 cm (0.5 in.) LCD character with decimal point

and negative sign, illuminated, maximum reading (1999, with decimal point) with 1 Vdc input

**CONTROLS:** power switch for OFF, BAT TEST, ON, toggle LAMP ON-OFF, ZERO ADJUST

**RESPONSE TIME:** detector dependent, approximately 2.5 seconds to 90% of final reading

**INDICATORS:** Low Battery Alert and KR/h Range Active

**POWER:** two "D" cell batteries; **BATTERY LIFE:** approximately 160 hours

**HUMIDITY:** 0–90%, non-condensing

**CONSTRUCTION:** aluminum with beige powder coat, includes handle & tripod stand

**SIZE:** 24.1 x 9.7 x 23.6 cm (9.5 x 3.8 x 9.3 in.) (H x W x L), excluding detector

**WEIGHT:** 1.6 kg (3.5 lb) with batteries

*(Note: The Model 9-7 is not RoHS compliant.)*

The Model 9-7-1, a version that displays measurements in Sv/h units, is also available (PN: 48-3756).

## Options *(note: other cable lengths are available)*

Low Range Ion Chamber: Model 9-7-LD (Part No. 47-3693)

Mid Range Ion Chamber for the Model 9-7: Model 9-7-BM (Part No. 47-3694)

High Range Ion Chamber for the Model 9-7: Model 9-7-BH (Part No. 47-3696)

30.5 m (100 ft) Extension with Kellem's Grip: Part No. 8293-689-100GR

61 m (200 ft) Extension cable with Kellem's Grip: Part No. 8293-689-200GR

Extension Cable 4.6 m (15 ft): Part No. 8293-689-15

Extension Cable 9.1 m (30 ft): Part No. 8293-689-30

Extension Cable 18.3 m (60 ft): Part No. 8293-689-60

0.6 m (2 ft) Rigid Detector Extension: Part No. 4293-843

1.5 m (5 ft) Rigid Detector Extension: Part No. 4293-844

Underwater Housing Assembly with 60 ft. cable: Part No. 4536-046

Underwater Housing Assembly with 100 ft. cable: Part No. 4536-047



(shown with optional detector attached)

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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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