## Model 3-IS Series Intrinsically Safe Survey Meters

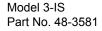


## Radiation Detection for a Safer World

## Introduction

The Model 3-IS series is an intrinsically safe radiation survey meter that can be used in areas where explosion safety is a primary concern. This meter is available in two models: a general purpose Model 3-IS, which can be adapted to a variety of external radiation detectors for exposure rate or contamination surveys and the Model 3-IS-1, which is outfitted with a single, internally mounted GM detector for performing exposure rate measurements.







Model 3-IS-1 Part No. 48-3651

	Model 3-IS	Model 3-IS-1
Detector	Only Ludlum Models 44-2, 44-6, 44-9, 42-41L and 44-38 are approved for use in this type of environment	Internally housed energy-compensated GM tube, 100 cpm/mR/hr sensitivity
Detector Range	Depends on detector selected, typically 0–200 mR/hr, or 0–500,000 counts/minute (cpm)	0.1 mR/hr to 1.0 R/hr
Detector Connector	Special locking series "C" (optional cable length from 1 m [39 in.] to 11.28 m [37 ft.] available)	none
Meter Dial	0–2 mR/hr, or 0–5 kcpm, BAT TEST (others available)	0-10 mR/hr, BAT TEST

## **Common Specifications**

METER DIAL: 6.4 cm (2.5 in.) arc, 1 mA analog type

**MULTIPLIERS:** x0.1, x1, x10, x100

LINEARITY: reading within 10% of true value with detector connected

**AUDIO:** built-in unimorph speaker with ON/OFF switch (greater than 60 dB at 0.6 m [2 ft]) **CALIBRATION CONTROLS:** accessible from front of instrument (protective cover provided)

HIGH VOLTAGE: adjustable from 400-1000 volts

THRESHOLD: fixed at 40 mV ± 10 mV

RESPONSE: toggle switch for FAST (4 seconds) or SLOW (22 seconds) from 10% to 90% of final reading

**RESET:** pushbutton to zero meter

POWER: 2 each Procell PC 1300 "D" cell batteries (housed in sealed compartment, externally accessible)

BATTERY LIFE: typically greater than 2000 hours with alkaline batteries

CONSTRUCTION: cast and drawn aluminum with beige (Model 3-IS) or yellow (Model 3-IS-1) powder coat

**TEMPERATURE RANGE**: -20 to 40 °C (-4 to 104 °F) **SIZE**:  $16.5 \times 8.9 \times 21.6$  cm  $(6.5 \times 3.5 \times 8.5$  in.) (H x W x L)

WEIGHT: 1.6 kg (3.5 lb) including batteries

CERTIFICATIONS: - UL 913 Class I, II & III Division 1 Groups A, B, C, D

- CSA 22.22 No. 157

- UL 61010-1 CSA C22.2 No. 61010-1