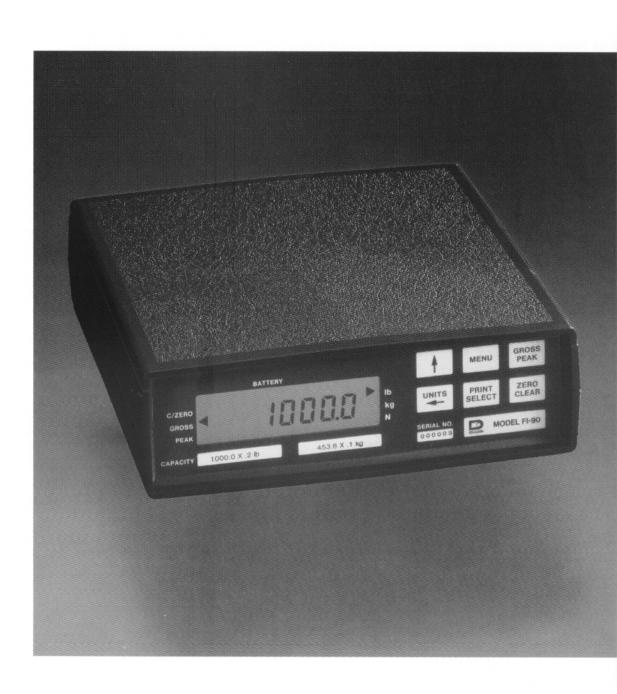
# DILLON

# FI-90 Force Indicator



## **Dillon FI-90 Force Indicator**

#### Features & Benefits

**Front-panel configuration**—Make easy configuration choices without opening the unit and hunting for the right dip switch. Calibrate and adjust linearity from the front panel.

**Convenient size**—Approximately 2-7/8 inches high, 8-1/3 inches wide and 9 inches deep, the FI-90 Force Indicator fits easily on any table top or mounts on a vertical surface using the optional panel-mount kit.

**Gross / peak key**—Switches instantly between gross and peak-hold modes. Peak-hold mode saves and displays the highest displayed reading.

Three units of measure—User selects pounds force, kilograms force, or Newtons with a touch of the UNITS key.

RS-232 / 20 mA serial output—Select to have data transmitted on request, continuously, or use the peak-hold autoprint function. Includes battery-backed time and date, programmable print format and protocol (baud rates from 300-9600)

**Battery backup**—Information is stored and saved in memory in case of power failure.

**Retractable tilt stand**—Lifts the face of the indicator for best sight line.

**Full list of options**—Select the options that fit the FI-90 to your specific application.

#### Four power options—

- AC power Either 115 VAC or 230 VAC (Please specify.)
- Internal lead acid battery Operate the FI-90 from either AC or internal battery. Internal charger, On/Off AC switch, low battery indication and programmable auto-shutdown.
- ❸ Twelve-volt DC operation For operation from vehicle power supplies in remote and mobile applications.
- D-Cell battery operation Includes four D-cell alkaline batteries, low battery indication, programmable sleep mode. AC power operation is not available in D-cell power models.

### **Options**

Remote relay box—Interfaces with two-setpoint option.

**Setpoints**—Two front-panel programmable setpoints with one user-defined remote key input. Interfaces with remote relay box.

**Lead-acid rechargeable battery**—Available on AC models only

**Setpoints**—Two front-panel programmable setpoints with one user-defined remote key input. Interfaces with remote relay box.

**Analog output**—Dip-switch selectable. Isolated analog output: 1-5, 4-20, 10-50 mA. 0-5, 0-10 VDC (On AC models only)

### **Specifications**

**Enclosure:** Impact-resistant, ABS plastic; RFI coating 2.875" high x 8.36" wide x 9.11" deep (7.3cm x 21.1cm x 23.1cm)

**Display:** 7-segment LCD; 6-1/2 digits plus sign, .0.5" (1.3 cm) high; moveable decimal

Control keys: ZERO/CLEAR, GROSS/PEAK, UNITS, PRINT, MENU, SELECT

**Annunciators:** Center-of-zero, gross, peak, lb, kg, newtons, and battery

Analog to digital conversion rate: 60 times per second

Peak detection rate: 60 times per second
Display update rate: 2 times per second
Resolution: Up to 10,000 divisions, standard

Increments: 1, 2, 5, 10, 20, 50 or any submultiple to .0001

Capacity: Front-panel configurable for values from

1 to 400,000 lb or 200,000 kg **Span range:** 0.2 to 3.5 mV/V

**Zero range:** ±0.2 mV/V (zero information stored in memory)

Load cell excitation:

5 VDC, drives up to four 350-ohm load cells

Cable connection: Standard 7-pin

Power:

117 VAC +10 / -15%, 50/60 Hz, 5 watts max. 230 VAC +10/-15%, 50/60 Hz, 5 watts max. Internal 1.3AH rechargeable battery Four D-cell alkaline batteries

Battery continuous operation:

Rechargeable: One 350-ohm load cell, 32 hrs four 350-ohm load cells, 15 hrs

Alkaline: one 350-ohm load cell, 200 hrs four 350-ohm load cells, 100 hrs

Operating temperature:  $14^{\circ}$  to  $104^{\circ}$  F (- $10^{\circ}$  to  $40^{\circ}$ C)

Warranty: One year

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