

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—

- ① *AC power*— Either 115 VAC or 230 VAC (Please specify.)
- ② *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.
- ③ *Twelve-volt DC operation*— For operation from vehicle power supplies in remote and mobile applications.
- ④ *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° to 104° F (-10° to 40°C)

Warranty: One year

Dillon

R.D. Jacobs Company
500 Southeast Thirteenth Street
Fort Lauderdale, Florida 33316
Phone: 954.462.1932
Fax: 954.527.4466
email: info@dynamometers.com



DILLON

Force Measurement Products & Systems