

# DILLON

Force Measurement Equipment

## ***FI-521 LED*** ***Load Cell Indicator***

- 3 cell memory
- 80 Hz peak capture rate
- IP65
- 2 RS-232 serial ports
- RS-485
- 5 point curve linearization
- Built-in real time and date clock
- Units of measure:  
kgf, lbf, Newton
- 2 set point outputs
- 7-pin load cell quick  
disconnect (equipped)
- 4 remote keypad inputs
- Analog output



## Specifications

**Power Supply:** Input 100 - 240 VAC, 50 - 60Hz internal mounted power supply with output of 12VDC at 2 amps

**Display:** 7 digits, 7-segment, 0.7" (17 mm) ultra-bright LEDs with 14 annunciators. Max display range -999,999 to 999,999. Display update rate 10Hz.

**Keypad:** 6 push buttons; select, cell, print, unit, zero, on/off

### Environment

**Working Temperature:** -10° C to 40° C (14° F to 104° F)

**Storage Temperature:** -20° C to 70° C (-4° F to 158° F)

**Humidity:** 10 to 90% RH without condensation

**Protection:** IP65

### Load Cell Drive Capacities

**Excitation Voltage:** 5VDC

**Capacity:** Drives up to eight 350-ohm load cells

**Signal Connection:** 4 or 6 lead load cells

**Load Cell Input Range:** -15mV to +15mV

**Max Load Cell Output:** 3mV/V

### Communication

**Serial Port 1:** Full-duplex RS-232

**Serial Port 2:** Full-duplex RS-232 or half-duplex RS485

**Baud Rate:** Selectable 1200-2400-4800-9600-19200/38400-57600 bps

**Data Output Format:** 8N1, 7O1, 7E1

**Serial Output:** Select up to 14 additional data parameters

**RS-485:** 0-5VDC

**Analog Output:** 0 to 2.5VDC ( $\leq 2.5\text{mA}$ )

**Remote Input:** Select, cell, print, unit, zero, off

**Setpoint 1 & 2:** 5 to 24VDC (.5A max) external, 5 to 8VDC ( $\leq .1\text{A}$ ) internal

### Analog Circuit Characters

24-bit A/D converter

**A/D Conversion Speed:** Peak Force 80Hz; Live Force 10Hz

**A/D Conversion:** 1mV input will output 100,000 raw counts.

**Hardware:** low pass filter and 2 programmable digital low pass filters

**Max Display Range:** -999,999 to 999,999

**Division Number Range:** 100,000 divisions

**Real Clock:** Built-in nonvolatile real time & date

### Other Main Functions

Programmable Zero Range

Programmable automatic zero point tracking

Programmable motion detection window

Programmable auto-power off time

Adjustable LED brightness

Units of Measure: kgf, lbf, Newton

Configurable serial output content

Two set point output with two data comparison points

### Product Codes

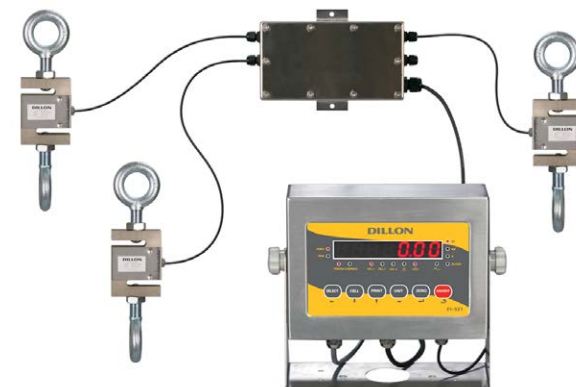
AWT05-506170 - US Version

AWT05-506171 - EU Version

AWT05-506172 - UK Version

### Options

PCs, printers, remote displays



**Combine several load cells together and see their combined output with a load cell summing box.**



*Dillon also manufactures highly accurate tensiometers, mechanical dynamometers and crane scales.*

### AUTHORIZED DISTRIBUTORS

**Ask the experts.** Dillon distributors offer complete service capabilities from application assistance to sales and product support. Their experienced representatives are the most knowledgeable experts that you will find in the force measurement industry. We recommend that you consult these capable specialists for all of your measuring needs.

Please call us or visit  
[www.dillonforce.com](http://www.dillonforce.com)  
for your nearest  
Dillon distributor.

## DILLON

Force Measurement Equipment

A division of Avery Weigh-Tronix, LLC  
Fairmont, Minnesota U.S.A.

Toll-Free: (800) 368-2031

Phone: (507) 238-8796

Fax: (507) 238-8258

[www.dillonforce.com](http://www.dillonforce.com)

