

# 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

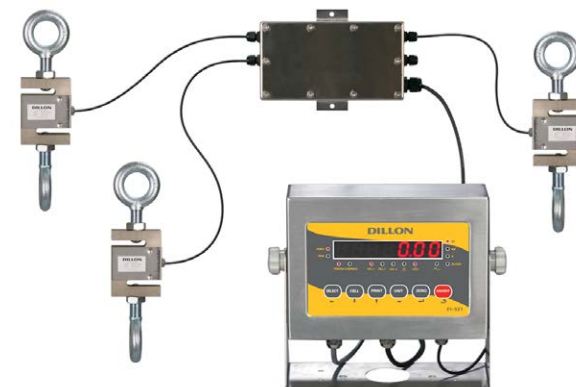
AWT05-506170 - US Version

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.*