

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 two 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.

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