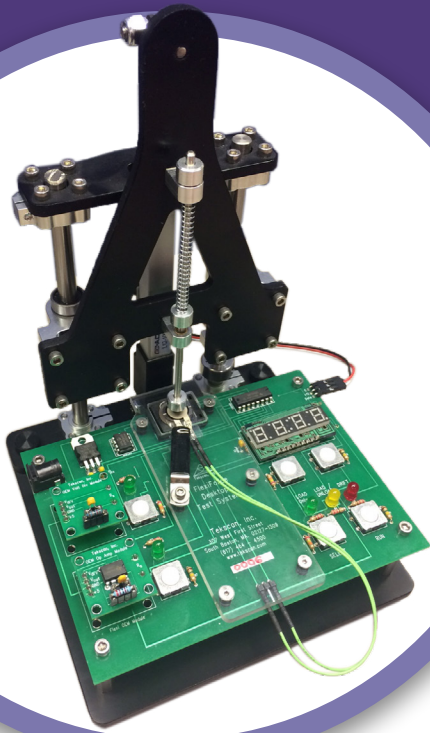


FlexiForce™

Sensor Characterization Kit

The FlexiForce™ Sensor Characterization Kit is a time-saving, affordable tool enabling engineers and designers to understand how FlexiForce sensors perform in a controlled loading environment. Users will gain a baseline understanding for sensor performance before moving into prototyping and more advanced design stages.



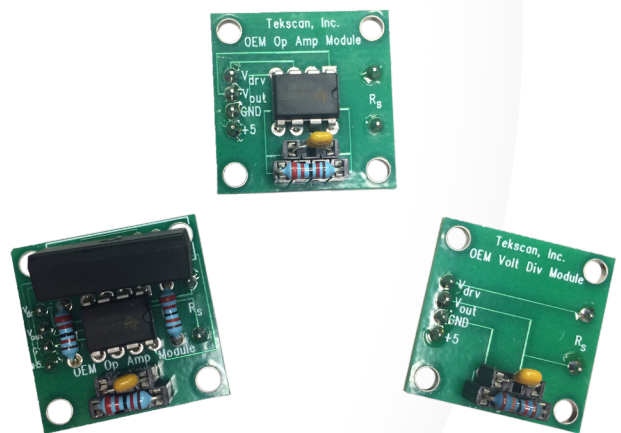
Features

- Desktop loading fixture allows users to apply controlled loading profiles to sensor and characterize performance.
- Interchangeable analog circuit modules allows users to test and characterize the functionality of their FlexiForce sensors with ease.
- Open-source software interface allows users to control loading, record sensor data, adjust sensitivity, and calibrate the sensor.
- Available in two loading varieties:
 - 1 lb and 10 lb

Benefits

- Test and characterize FlexiForce sensors with the same methods used by Tekscan application engineers.
 - Be more confident in FlexiForce sensor performance as you proceed to prototyping and later design phases.
- Save time without having to build loading fixtures and circuitry from scratch.
- Program custom loading profiles through the open-source software.

The FlexiForce Sensor Characterization Kit comes with three interchangeable analog circuit modules



✓ ROHS COMPLIANT

Components

The FlexiForce Sensor Characterization Kit contains:

- (1) Desktop loading fixture
- (1) Linear actuator / frame sub assembly
- (1) Fixture board / base sub assembly
 - Arduino nano chip
 - Load cell (1 lb or 10 lb)
 - Circuit module slots
 - Module selection buttons & display
 - (2) Mounting screws

(3) Analog circuit modules

- Voltage divider, inverting op-amp, and non-inverting op-amp

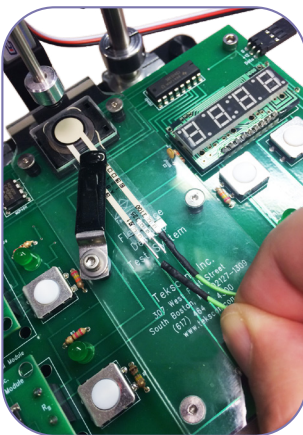
(4) FlexiForce sensors

- 1 lb Kit: [A301-1](#)
- 10 lb Kit: [A301-25](#)

(1) Quickstart guide

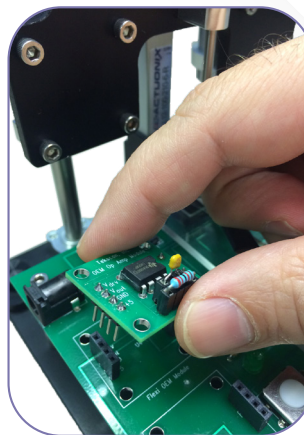
- Includes link to download open-source software

(1) 3-foot USB extension cable

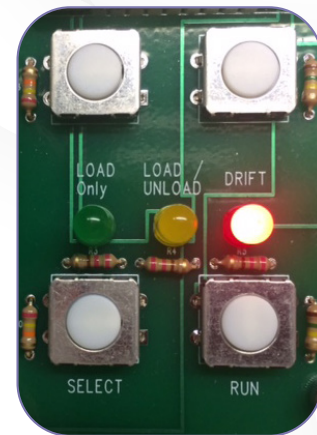


Compatible with FlexiForce standard-pinned sensors, including:

- A201
- HT201
- A301 (included with kit purchase)
- ESS301
- A401
- A502



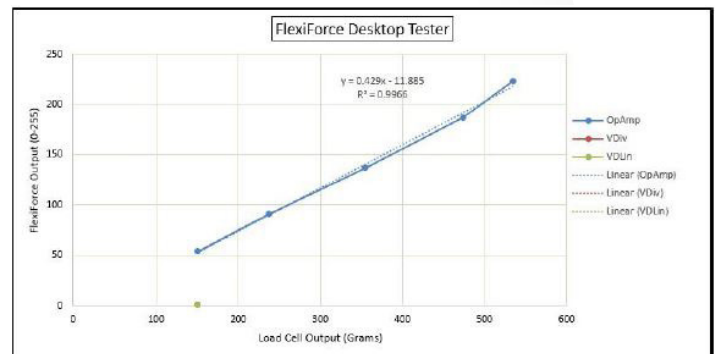
Test sensors using simple plug & play analog circuit modules, included with purchase.



Adjust sensitivity and toggle between pre-programmed loading profiles at the push of a button.

Additional Specifications

FlexiForce Characterization Kit	
DESKTOP LOADER	
Size L x W x H (mm (in.))	152 x 152 x 232 mm (6.00 x 6.00 x 9.14 in.)
Weight (g (lb))	975 g (2.14 lb)
Applicable Load Range (g (lb))	FDL-1: 0 - 453.59 g (0 - 1 lb) FDL-10: 0 - 4530 g (0 - 10 lb)
POWER SUPPLY	
Size L x W x H (mm (in.))	84 x 47 x 38 mm (3.30 x 1.85 x 1.50 in.)
Weight (g (lb))	110 g (0.24 lb)
Power In / Power Out	100 - 240 VAC, 450 mA max 50 - 60 Hz / 7.5 VDC, 1.3 A Max
DC Cable Length (mm (in.))	1500 mm (58.8 in.)
DC Plug (mm (in.))	2.5 x 5.5 x 9.5 mm (0.10 x 0.22 x 0.37 in.)
AC Receptacle	Interchangeable Blades
USB CABLE [USB-A to USB Mini-B]	
Length (mm (in.))	2000 mm (78.74 in.)
Weight (g (lb))	50 g (0.11 lb)
OPERATING CONDITIONS	
Temperature (°C (°F))	-10 to 50°C (14 to 122°F)



Save records on sensor performance for linearity, hysteresis, drift, and repeatability.

Download Open-Source Software Today at
www.tekscan.com/fir



PURCHASE TODAY ONLINE AT WWW.TEKSCAN.COM/STORE



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