

Flexiforce SmartLead

824, 324B, 324C, 324D



Applications

- Measurement of grip or finger force
- Tactile feedback

Description

The Ultium Flexiforce SmartLead provides the user with a quick and easy modality for the collection and analysis of pressure sensor data. The SmartLead works in conjunction with a thin, flexible, simple to use FlexiForce sensor. Each SmartLead can attach to and capture data from a single FlexiForce sensor. The FlexiForce sensor is available in three different input ranges.

Required Software

- MR3.12 or newer
- myoMuscle Module

Features

- FlexiForce sensors
- 3 available input ranges
 - 1 lbf
 - 25 lbf
 - 100 lbf
- Thin (0.008 in) and flexible



Specifications

Parameter	Value	Units
Input channels	1	-
Sample rate	2000 / 4000	Hz
Input range (model dependent)	0-100	lbf
Resolution	0-1 lbf	0.00009
	0-25 lbf	0.009
	0-100 lbf	0.00425
Linearity (error)	$\leq \pm 5$	%
Repeatability	$\leq \pm 2.5$	%
Hysteresis (full scale)	≤ 4.5	%
Analog output scale factor	5V = full scale	lbf

Physical Dimensions

Parameter	Value	Units
SmartLead	17 x 1.9 x 1.1	cm
	5.7	g
Sensing area (diameter)	9.53	mm

Ordering Information

Device	Image	Catalog No.
Flexiforce SmartLead		824
FlexiForce sensor		324B (0-1 lbf) 324C (0-25 lbf) 324D (0-100 lbf)