

**Intelligent Digital Handheld Display**

**NOTABLE FEATURES**

- 21k Point Data Logging
- Speed/ Angle/ Power Measurement<sup>1</sup>
- Bridge Resistance Measurement
- Keypad Options (Track/Hold, Peak/Valley Reset, Unit, Tare/ Gross, Shunt, Battery, Display, Menu)
- First Peak/Valley Feature
- User Friendly Navigation Menu
- Shunt Calibration
- Universal Unit Conversion
- 14 Sensor Profile Storage
- Supports IEEE1451.4 Standard (TEDS Templates 30 & 33)

**WEIGHT**

- 1.85 lb. (840 g)

**INPUT**

- Input Range up to  $\pm 500\text{mV/V}$  (Strain Gauge)
- Input Range  $\pm 12\text{VDC}$  (Amplified Input)
- Input Range up to 30 mA (Amplified Input)
- Leading and Lagging TTL input<sup>1</sup>

**OUTPUT**

- USB Output
- ASCII Stream
- Precision 5.000V Excitation
- 24V/ 5V Supply
- Analog Voltage (0-5 or  $\pm 5$  VDC)
- Analog Current (0-20, 4-20, 0-25, 5-25 mA)
- Selectable Voltage and Current Configuration
- Two Individual Relay Outputs



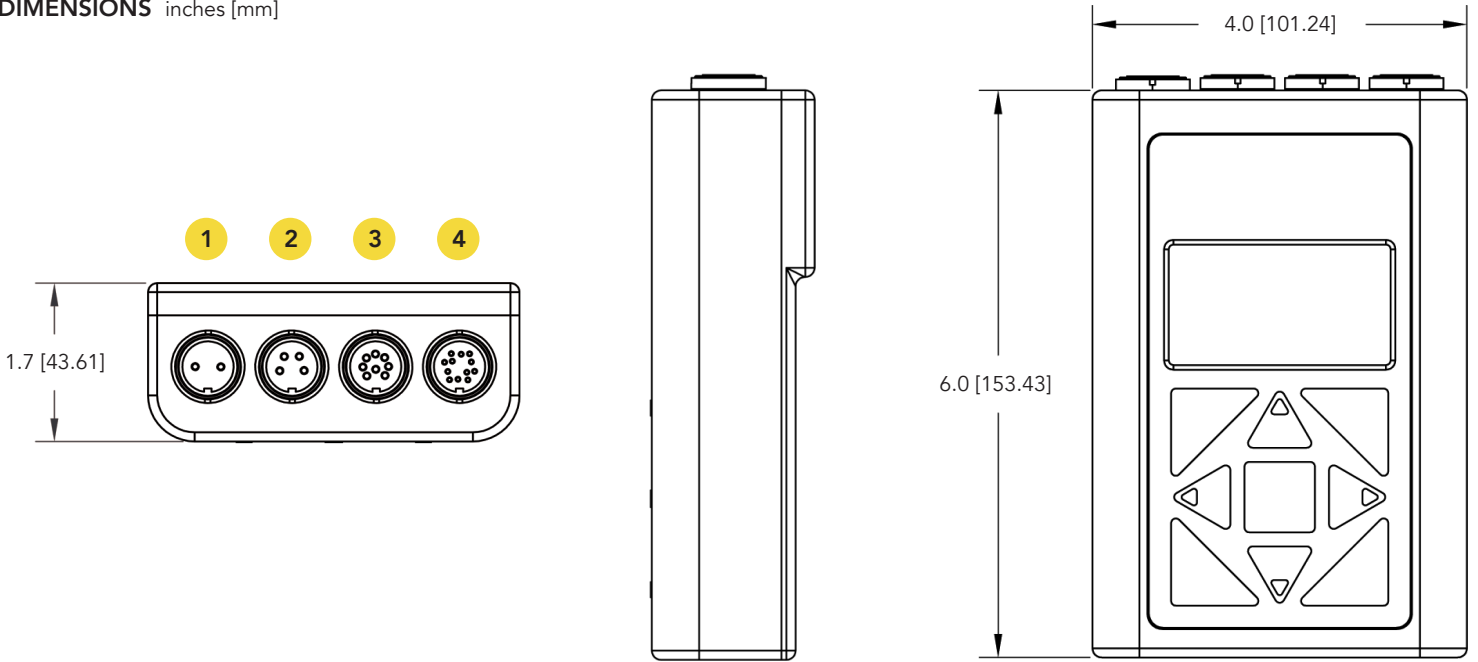
FUTEK’s IHH500 Handheld Display is a universal indicator compatible with strain gauge sensors. Whether your application involves load cells, pressure sensors or torque sensors, our IHH500 is durable for continual automation applications and precise enough for delicate medical testing. In addition to its universal sensor compatibility, the IHH500 is fully suited to work with our SENSIT Test & Measurement Software. With SENSIT, users can enjoy features such as data logging and live graphing via a Personal Computer (PC).

Each application calls for specific requirements. Knowing this, FUTEK’s Electrical Engineering Team developed two versions of our IHH500 to accommodate your application’s needs. Allow us to introduce our IHH500 Pro and Elite models. Both house the same specifications as far as resolution, accuracy, and sampling rate. With the IHH500 Elite, users gain additional performance capabilities, instruments, software and accessories that can further advance and simplify your test-measurement platform.

FUTEK’s SENSIT software is a perfect addendum to our IHH500 Handheld Display. From the ability to remotely monitor or change settings on the IHH500 from the comfort of your computer screen to the powerful live graphing and data logging features, SENSIT paired with this handheld display allows application engineers to monitor up to 16 sensors.



**DIMENSIONS** inches [mm]



**CONNECTORS**

#	TYPE	BINDER
1	POWER CONNECTOR	09 0104 99 02
	MATING CONNECTOR	99 5101 00 02
2	USB CONNECTOR	09 0112 99 04
	MATING CONNECTOR <sup>3</sup>	99 5109 00 04
3	OUTPUT CONNECTOR	09 0174 99 08
	MATING CONNECTOR <sup>2</sup>	99 5171 00 08
4	SENSOR CONNECTOR	09 0132 90 12
	MATING CONNECTOR <sup>2</sup>	99 5129 00 12

For wiring diagram instructions please [review the product manual](#).

**BATTERY**

Rechargeable Battery Operated

Battery Life up to 30 Hours (Depending on the Load)

Battery Lifetime Monitoring

**BATTERY CHARGER**

Input: 100-240 VAC - 0.5 A 50/60 Hz

Output: 12 VDC - 1.2 A

**PERFORMANCE**

24 bits internal resolution

Up to 20 bits ( $\pm 500,000$  counts) noise free resolution

5 to 4800 sample per second selectable rate

High accuracy ( $\pm 0.001\%$ )

Low non-linearity ( $\pm 0.001\%$ )

Minimum Bridge Resistance: 30 ohm

Input range up to  $\pm 500\text{mV/V}$  (Strain Gauge)

Input range  $\pm 12\text{VDC}$  (Amplified Input)

Input range up to 30 mA (Amplified Input)

USB Output

ASCII Stream

24V/5V Output

Analog Voltage and Current Output

**LCD**

16 x 4 character LCD with Selectable Height (0.18 [4.75] and 0.49 [12.55])

6 Digit Display Plus Sign and Decimal Point or 7 Digit Plus Sign Depending On Application

LCD Auto Power-off

Brightness / Contrast Adjustment



### IHH500 PRO

Intelligent Digital Handheld Display, mV/V, VDC, Current Measurement, Analog Output, Alarm Relays, TEDS and USB Output, Power Supply Adapter is Included With Pro Display. Accessory kit sold separately.

### IHH500 ELITE

Intelligent Digital Handheld Display, mV/V, VDC, Current and Encoder Measurement, Analog Output, Alarm Relays, TEDS and USB Output - Accessory Kit (FSH03583) With All Mating Connectors and SensIT Software Included.

VERSIONS		RELATED ACCESSORIES	
ITEM #	DESCRIPTION	ITEM #	DESCRIPTION
FSH03460	IHH500 - Elite Display w/ Accessory Kit		
FSH03571	IHH500 - Pro Display		
FSH03583	IHH500 - Accessory Kit: Pelican Case , Software (FSH03189) , USB Cable , Support Bracket , Analog/ Alarm Mating Connector , Sensor Mating Connector	FSH03583	IHH500 - Accessory Kit: Pelican Case , Software (FSH03189) , USB Cable , Support Bracket , Analog/ Alarm Mating Connector , Sensor Mating Connector
FSH03569	IHH500 Power Supply Adaptor	FSH03569	IHH500 Power Supply Adaptor
FSH03570	IHH500 USB Cable <sup>2</sup>	FSH03570	IHH500 USB Cable <sup>2</sup>
FSH03189	SENSIT Instrument <sup>2</sup>	FSH03189	SENSIT Instrument <sup>2</sup>
G0D03025	Bracket <sup>2</sup>	G0D03025	Bracket <sup>2</sup>
FSH03572	IHH500 Analog/Relay Output Cable <sup>2</sup>	FSH03572	IHH500 Analog/Relay Output Cable <sup>1</sup>

<sup>1</sup> Only available in Elite version

<sup>2</sup> Included with Elite version

<sup>3</sup> Optional

**Drawing Number: F11329-D**

FUTEK reserves the right to modify its design and specifications without notice. Please visit <http://www.futek.com/salesterms> for complete terms and conditions.

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ROHS



U.S. Manufacturer