



FEATURES

- USB 2.0 Communication Link
- USB Bus-Powered
- Input/Output Short Circuit Protection
- Streaming ASCII Output
- CE approved
- Supports Voltage Sensors (FSH03631)
- Supports Current Sensors (FSH03634)

IMPORTANT NOTE: ONLY CONNECT DEVICE TO USB 2.0 PORT

GENERAL Sampling Rate Sampling Rate Sampling Rate (SPS) / 4 Internal Resolution 24 bits Resolution (Noise Free) See Chart Non Linearity ± 0.005% of FSR Dutput Digital Packetized Data Integrated Digital Filter So Hz/60 Hz Rejection (100 dB) On Chip Memory 1 Kilobyte Stored Calibration Up to 16 Points Weight Approx. 10 g P Rating IP50 VOLTAGE TYPE (FSH03631) Power Output 12 VDC/1W Voltage Input 1 to VDC (Factory Default) Power Supply USB Bus (5 VDC ± 5%) CURRENT TYPE (FSH03634) Power Supply USB Bus (350 mA) CONNECTORS Sensor Connector Hirose LX40-12P Mating Connector Hirose LX40-12P Mating Connector Hirose LX60-12S USB 2.0 Connector Type A Plug ENVIRONMENT Operating Temperature -13°F to 185°F [-25°C to 85°C] CONFORMITY ROHS CONFORMITY ROHS 2011/65/EU		
Sampling Rate Up to 4800 SPS Sampling Rate (SPS) / 4 Internal Resolution 24 bits Resolution (Noise Free) See Chart Non Linearity ± 0.005% of FSR Output Digital Packetized Data Integrated Digital Filter 50 Hz/60 Hz Rejection (100 dB) On Chip Memory 1 Kilobyte Stored Calibration Up to 16 Points Weight Approx. 10 g IP50 VOLTAGE TYPE (FSH03631) Power Output 12 VDC/1W Voltage Input ± 10 VDC (Factory Default) Power Supply USB Bus (5 VDC ± 5%) CURRENT TYPE (FSH03634) Power Output 12 VDC/1W Current Input 0-30 mA Power Supply USB Bus (350 mA) CONNECTORS Sensor Connector Hirose LX40-12P Mating Connector Type A Plug ENVIRONMENT Operating Temperature -13°F to 185°F [-25°C to 85°C] Storage Temperature -40°F to 257°F [-40°C to 125°C] CONFORMITY ROHS 2011/65/EU	SPECIFICATIONS	
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Integrated Digital Filter 50 Hz/60 Hz Rejection (100 dB) On Chip Memory 1 Kilobyte Stored Calibration Weight Approx. 10 g P Rating IP50 VOLTAGE TYPE (FSH03631) Power Output 12 VDC/1W Voltage Input ± 10 VDC (Factory Default) Power Supply CURRENT TYPE (FSH03634) Power Output 12 VDC/1W Current Input 0-30 mA Power Supply USB Bus (350 mA) CONNECTORS Sensor Connector Hirose LX40-12P Mating Connector Hirose LX60-12S USB 2.0 Connector Type A Plug ENVIRONMENT Operating Temperature -13°F to 185°F [-25°C to 85°C] Storage Temperature -40°F to 257°F [-40°C to 125°C] CONFORMITY ROHS 2011/65/EU	Non Linearity	± 0.005% of FSR
On Chip Memory 1 Kilobyte Stored Calibration Up to 16 Points Weight Approx. 10 g P Rating P Rating Power Output Voltage Input ± 10 VDC/1W Voltage Input ± 10 VDC (Factory Default) Power Supply USB Bus (5 VDC ± 5%) CURRENT TYPE (FSH03634) Power Output 12 VDC/1W Current Input 0-30 mA Power Supply USB Bus (350 mA) CONNECTORS Sensor Connector Hirose LX40-12P Mating Connector Hirose LX40-12S USB 2.0 Connector Type A Plug ENVIRONMENT Operating Temperature -13°F to 185°F [-25°C to 85°C] Storage Temperature -40°F to 257°F [-40°C to 125°C] CONFORMITY ROHS 2011/65/EU	Output	Digital Packetized Data
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Power Supply USB Bus (5 VDC ± 5%) CURRENT TYPE (FSH03634) Power Output 12 VDC/1W Current Input 0-30 mA Power Supply USB Bus (350 mA) CONNECTORS Sensor Connector Hirose LX40-12P Mating Connector Hirose LX60-12S USB 2.0 Connector Type A Plug ENVIRONMENT Operating Temperature -13°F to 185°F [-25°C to 85°C] Storage Temperature -40°F to 257°F [-40°C to 125°C] CONFORMITY ROHS 2011/65/EU	Power Output	12 VDC/1W
Power Output 12 VDC/1W Current Input 0-30 mA Power Supply USB Bus (350 mA) CONNECTORS Sensor Connector Hirose LX40-12P Mating Connector Hirose LX60-12S USB 2.0 Connector Type A Plug ENVIRONMENT Operating Temperature -13°F to 185°F [-25°C to 85°C] Storage Temperature -40°F to 257°F [-40°C to 125°C] CONFORMITY ROHS 2011/65/EU	Voltage Input	± 10 VDC (Factory Default)
Power Output 12 VDC/1W Current Input 0-30 mA Power Supply USB Bus (350 mA) CONNECTORS Sensor Connector Hirose LX40-12P Mating Connector Hirose LX60-12S USB 2.0 Connector Type A Plug ENVIRONMENT Operating Temperature -13°F to 185°F [-25°C to 85°C] Storage Temperature -40°F to 257°F [-40°C to 125°C] CONFORMITY RoHS 2011/65/EU	Power Supply	USB Bus (5 VDC ± 5%)
Current Input O-30 mA Power Supply USB Bus (350 mA) CONNECTORS Sensor Connector Hirose LX40-12P Mating Connector Hirose LX60-12S USB 2.0 Connector Type A Plug ENVIRONMENT Operating Temperature -13°F to 185°F [-25°C to 85°C] Storage Temperature -40°F to 257°F [-40°C to 125°C] CONFORMITY ROHS 2011/65/EU	CURRENT TYPE (FSH03634)	
Power Supply USB Bus (350 mA) CONNECTORS Sensor Connector Hirose LX40-12P Mating Connector Hirose LX60-12S USB 2.0 Connector Type A Plug ENVIRONMENT Operating Temperature -13°F to 185°F [-25°C to 85°C] Storage Temperature -40°F to 257°F [-40°C to 125°C] CONFORMITY RoHS 2011/65/EU	Power Output	12 VDC/1W
CONNECTORS Sensor Connector Hirose LX40-12P Mating Connector Hirose LX60-12S USB 2.0 Connector Type A Plug ENVIRONMENT Operating Temperature -13°F to 185°F [-25°C to 85°C] Storage Temperature -40°F to 257°F [-40°C to 125°C] CONFORMITY RoHS 2011/65/EU	Current Input	0-30 mA
Mating Connector Hirose LX40-12P Mating Connector Hirose LX60-12S USB 2.0 Connector Type A Plug ENVIRONMENT Operating Temperature -13°F to 185°F [-25°C to 85°C] Storage Temperature -40°F to 257°F [-40°C to 125°C] CONFORMITY ROHS 2011/65/EU	Power Supply	USB Bus (350 mA)
Mating Connector Hirose LX60-12S USB 2.0 Connector Type A Plug ENVIRONMENT Operating Temperature -13°F to 185°F [-25°C to 85°C] Storage Temperature -40°F to 257°F [-40°C to 125°C] CONFORMITY RoHS 2011/65/EU	CONNECTORS	
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ENVIRONMENT Operating Temperature -13°F to 185°F [-25°C to 85°C] Storage Temperature -40°F to 257°F [-40°C to 125°C] CONFORMITY ROHS 2011/65/EU	Mating Connector	Hirose LX60-12S
-13°F to 185°F [-25°C to 85°C]	USB 2.0 Connector	Type A Plug
-40°F to 257°F [-40°C to 125°C] CONFORMITY RoHS 2011/65/EU	ENVIRONMENT	
CONFORMITY RoHS 2011/65/EU	Operating Temperature	-13°F to 185°F [-25°C to 85°C]
RoHS 2011/65/EU	Storage Temperature	-40°F to 257°F [-40°C to 125°C]
	CONFORMITY	
CE EN 61326-1:2006	RoHS	2011/65/EU
	CE	EN 61326-1:2006

 $^{^{1}}$ Speed = Δ α × 60 / PPR

³ For 0–30 mA use item FSH03634; for 10 VDC use FSH03631













² 1W power output

Model USB320 2

SAMPLING RATE	
SAMPLES PER SECOND (SPS)	RESOLUTION (NOISE FREE BITS)
5	21
100	19
300	18.1
1200	17
2400	16
4800	16

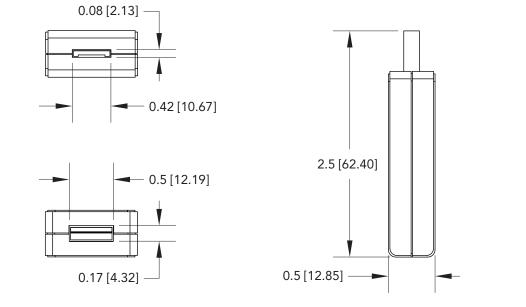
LED INDICATORS	
Blinking blue (10 Hz)	Module Auto-Calibration
Blinking blue (1 Hz)	Module Normal Operation
Green	USB Power
Red	USB Data Link

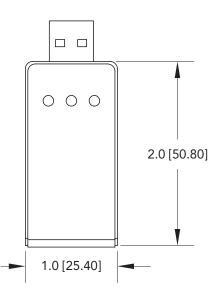
ACCESSORIES

• **SENSIT Software** (FSH03189)

14 Day Trial - Available to download on FUTEK website. A license is required, per seat, after 14 days to benefit the features such as data logging, graphing, etc. Trial version turns into basic read-out ONLY after 14 days and a product key is required to enable the features.

DIMENSIONS inches [mm]





Drawing Number: FI1380-E

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