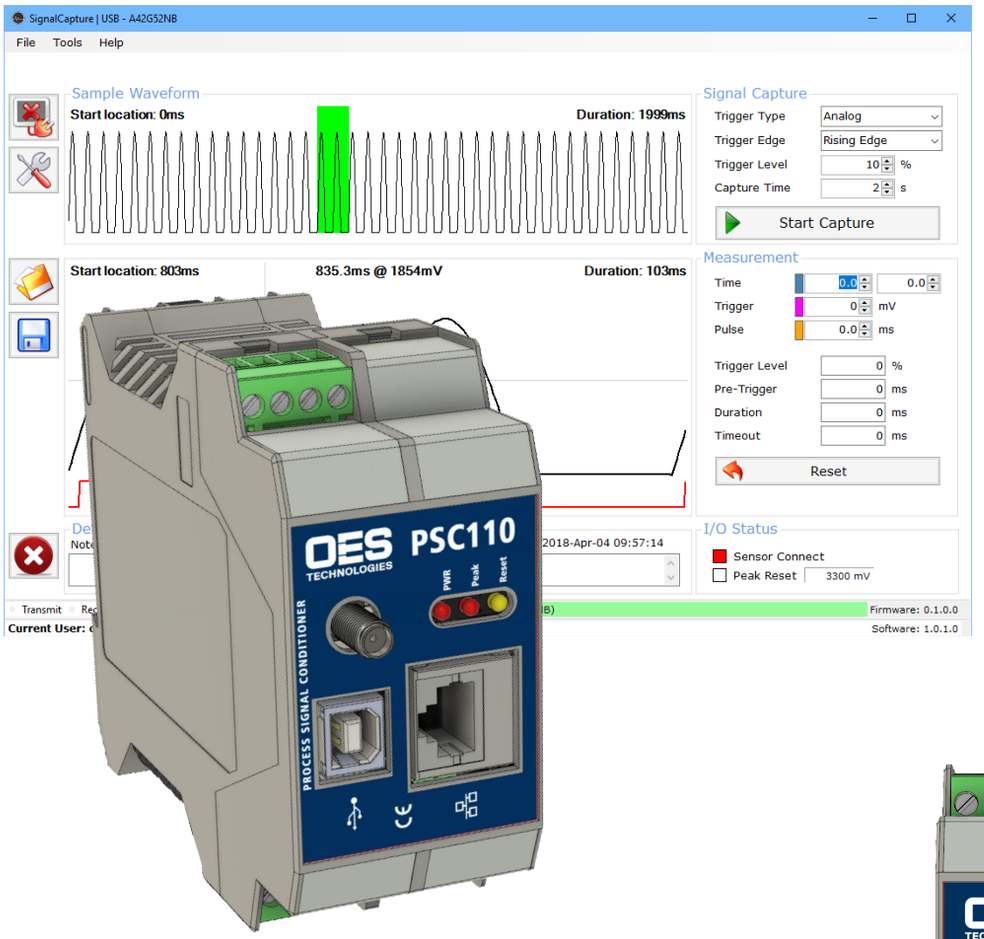
PSC110 Process Signal Conditioner
For Process Monitoring



HIGHLIGHTS

- Delivers excitation power for ICP and IEPE sensors
- Provides peak hold and analog output signals
- Remote reset feature synchronizes with machine cycles
- Offers AC or DC signal coupling and 7 gain settings
- DIN rail mounting
- Setup and configuration using PSC110 companion software which also serves as a viewer to monitor and analyze the process.

The PSC110 signal conditioner is designed for operation with ICP and IEPE dynamic force and strain sensors and is ideally suited for monitoring forces experienced during manufacturing, assembly, on-line processes, quality assurance, or end-of-line product testing. With its long discharge time constant and high frequency response, both quasi-static and dynamic measurements up to 10 kHz are possible.

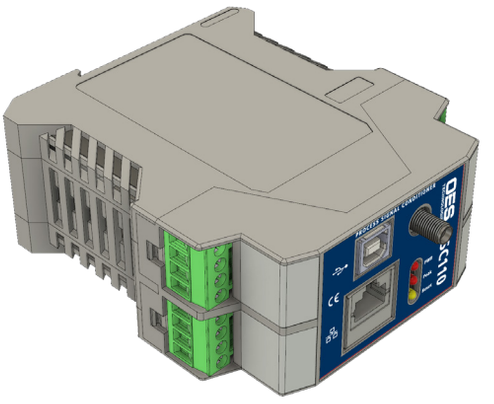
The unit synchronizes with machine cycles through a reset feature while analog and peak hold outputs allow for real-time monitoring with machine control devices. The DIN rail mounting offers convenient installation into protective enclosures to withstand harsh, industrial environments.

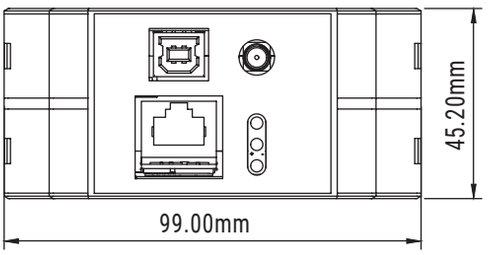
PSC110 companion software offers a graphical view that helps you to visualize the process and the application, measure, setup, and configure the PSC110 with the process.

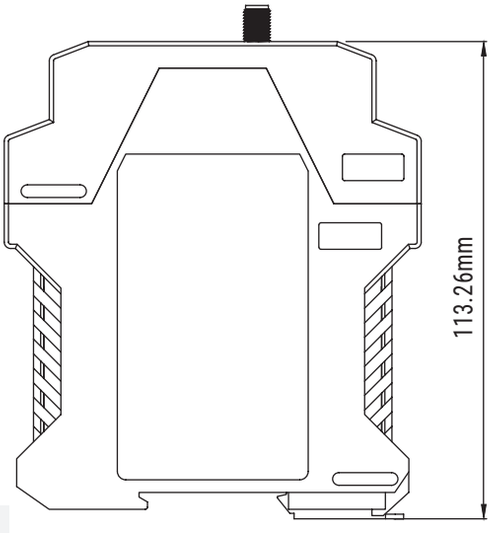
PSC110 PROCESS SIGNAL CONDITIONER

PSC110

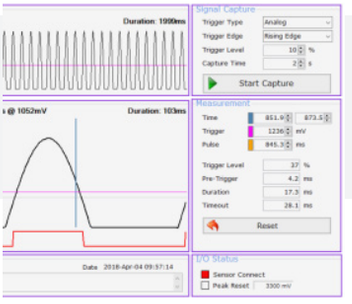
PERFORMANCE	IMPERIAL	METRIC
Channels	1	
Output Voltage (Instantaneous)	± 10	
Output Voltage (Peak)	0 to 10 V	
High Frequency Response	10kHz	
Low Frequency Response, Ac Coupled (-5%)	0.5 kHz	
Low Frequency Response, Dc Coupled	0 Hz [1]	
Voltage Gain (Incremental Steps)	x1, x2, x4, x8, x10, x16, x20	
Autozero Accuracy	± 35 mVDC	
ENVIRONMENTAL		
Temperature Range	+60 to +110 °F	+15 to +45 °C
ELECTRICAL		
Power Required (± 10%)	24 VDC	
Current Draw	100 mA	
Broadband Electrical Noise (1 Hz To 10 Khz)	20 µV rms	
Peak Hold Reset	Optically Isolated	
Discharge Time Constant (AC coupled)	1 sec	
PHYSICAL		
Size (Length X Height X Width)	3.89 x 4.46 x 1.78 in	99 x 113.36 x 45.20 mm
Mounting	DIN rail	
Electrical Connector (Sensor Input)	SMA	
Electrical Connector (Analog Output, Peak Output, Power, Ground)	Removable Screw Terminals	
NOTES		
This product conforms to applicable European directives for CE marking. [1] Governed by sensor time constant.		







PSC110 companion software is supplied with the PSC110, installed on MS Windows 7 & 10 and connects by Ethernet or USB communication



About OES Technologies

OES Technologies products and technologies are developed specifically for the wire processing industry to monitor and inspect 100% of parts produced during the manufacturing process, and prevent part defects from entering the supply chain. OES's dedication to innovation enables them to deliver a steady stream of cutting-edge technologies that meet the exacting demands of this ever-changing market.