



EchoPlus® REMOTE TRIGGER

For On-Demand Wireless Vibration Measurements



Wirelessly capture data on-demand!

Wireless Remote

Model 070A99

A single remote works with up to 12 EchoPlus® Trigger boxes

EchoPlus® Remote Trigger

Model 070A97

(pictured with EchoPlus® Wireless Junction Box)

Highlights

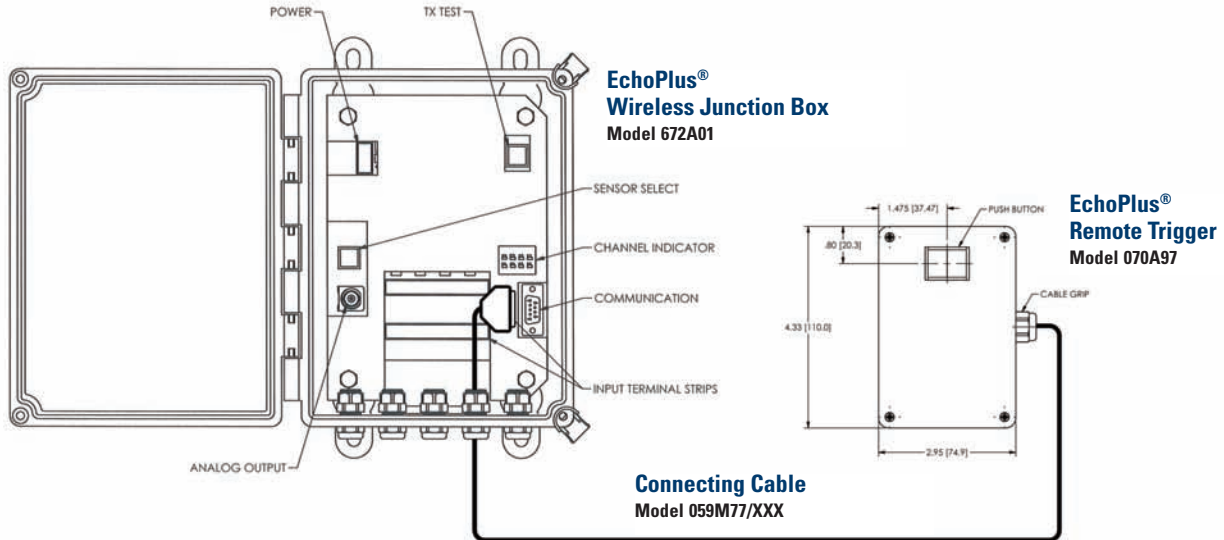
- Monitor non-continuously running rotating assets
- Wirelessly capture overall vibration data On-Demand
- Eliminate difficult data collection within dangerous locations

Typical Applications

- Overhead cranes
- Barge pumps

The Echo® On-Demand Trigger is an accessory for the EchoPlus® Wireless Junction Box that allows a user to initiate measurements whenever desired. With this addition to the EchoPlus®, a user is not limited to receiving measurements on the programmed transmission interval. The trigger device (Model 070A97) connects directly into the EchoPlus® Wireless Junction Box (Model 672A01) and initiates the measurement cycle with a simple push of the button on the wireless remote (Model 070A99).

The ability to take measurements on demand now makes the EchoPlus® Wireless Junction Box an ideal solution for monitoring non-continuously running rotating assets such as overhead cranes. Overall vibration data can be recorded, transmitted, and stored in the Echo® Wireless Monitoring software only at times when the machine is running and at specific loads. Setting alarm levels and monitoring the trends for this data fosters proactive replacement and repair of defective equipment, and can prevent costly downtime or catastrophic failures.



Echo® Remote Trigger Specifications	
Model Number	070A97
Performance	
Measurement Trigger Time	Up to 4 seconds after activation
First Measurement Time	Completed 11.5 seconds after initiation
Switch Activation	External Pushbutton or Wireless Remote
Radio	
Frequency	433 MHz
Output Power	40 mW
Range (Line of Sight)	3280 ft 1000 m
Channels	1 to 12
Encoding Type	Fixed, learning, and rolling code
Modulation	Amplitude Shift Keying
Physical	
Power	24 VDC (taken from EchoPlus®)
Connector(s)	Screw terminal to DB9 adaptor
Size	>10 ³ Ohm
Weight	>100 kohm
Enclosure Rating	NEMA 4X IP66

Echo® Remote Trigger Required Models	
070A97	Trigger Box
070A99	Wireless Remote
059M77/XXX	Cable that connects Trigger Box to EchoPlus® (672A01) 'XXX' signifies length in ft

Operation

When the external button is pressed or the wireless switch is closed via remote trigger, the red LED will illuminate indicating the trigger has been activated and a time circuit will hold the switch closed for 5 seconds. After an acknowledgement signal has been received from the EchoPlus® Wireless Junction Box (Model 672A01), a feedback circuit will illuminate the green LED indicating the measurement has been initiated. The EchoPlus® will then proceed with its normal measurement cycle and power the first active channel for data collection.

Note that each measurement lasts approximately 11.5 seconds per channel, and the pause between channel measurements is approximately 1.8 seconds. **Therefore a conservative guideline is that the machinery should be running for a duration of at least [# of points] x 15 seconds. Also note that it can take up to 4 seconds after the trigger has been activated for the EchoPlus® measurement cycle to initiate.**

The Echo® On-Demand Trigger is an accessory for the EchoPlus® Wireless Junction Box that allows a user to initiate measurements whenever desired. With this addition to the EchoPlus®, a user is not limited to receiving measurements on the programmed transmission interval. The trigger device (Model 070A97) connects directly into the EchoPlus® Wireless Junction Box (Model 672A01) **via serial cable (Model 059M77/XXX)** and initiates the measurement cycle with a simple push of the button or click of a wireless remote (Model 070A99).



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