



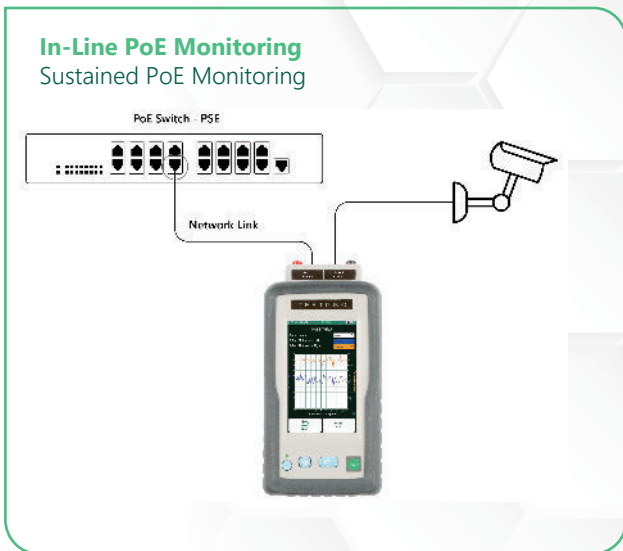
NEW!

# Power over Ethernet and SNR In-line Monitoring



With the addition of the new **AD-NET-PASSTHRU adapter**, users can enhance the Ethernet link speed and PoE troubleshooting capabilities of TestPro and Network Service Assistant. This unique test adapter allows users to place the

test equipment in-line between the switch and the end device, such as a PoE camera, and test while the end device is in use. The AEM tester with **AD-NET-PASSTHRU adapter** will allow pass through monitoring of both data and power.



The testing provides details on connected speed up to 1Gbps and SNR (Signal-To-Noise Ratio) on both sides of the connection as well as the power draw of the connected PoE device. The information may be examined in real time and saved.

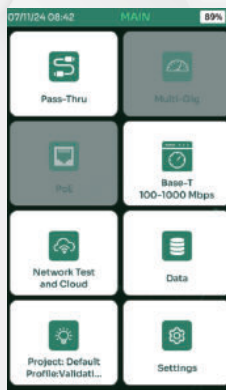
The test can also be run as a log capture to help troubleshoot or test a link under load for extended periods of time, and the log can be retrieved using TestDataPro test results management software.

### Test parameters include:

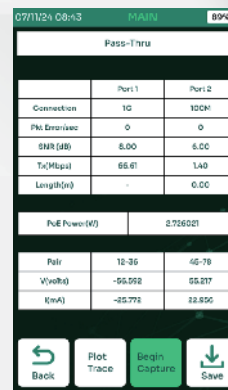
- Negotiated Connection Speed
- Tx speed during activity
- PoE Voltage
- PoE Current
- PoE Power
- SNR

### Supported PoE levels include:

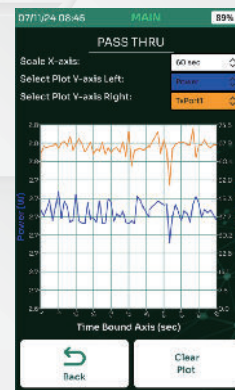
- 802.3af/at/bt
- UPoE



Passthru Home



Passthru Test

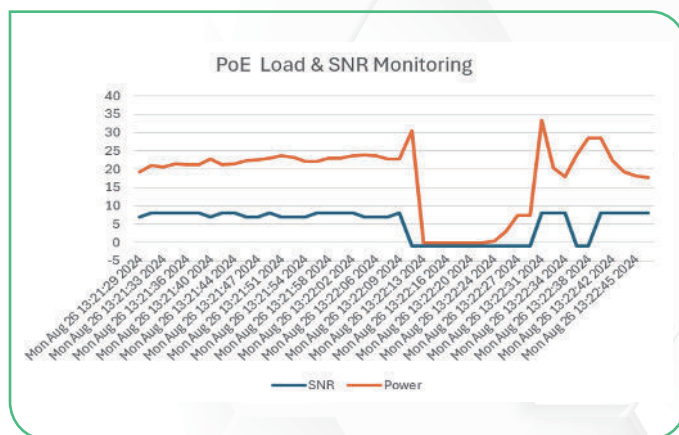


Passthru Plot

## REPORTING

Timestamp	Port1 Speed	Length	SNR	Bad Packets	Port2 Speed	Length	SNR	Bad Packets	Transmit Mbps	12-36 Voltage	Current	45-78 Voltage	Current	Power
Mon Aug 26 13:21:29 2024	1000M	-1	7	0	1000M	-1	7	0	0.0368687	-56.2367	-0.341187	-1.74491	0.00016531	19.1875
Mon Aug 26 13:21:31 2024	1000M	-1	8	0	1000M	-1	8	0	1.83486	-56.2004	-0.374863	-1.74586	0.000165775	21.0677
Mon Aug 26 13:21:33 2024	1000M	-1	8	0	1000M	-1	8	0	3.11045	-56.2097	-0.366191	-1.74579	0.000163447	20.5838
Mon Aug 26 13:21:35 2024	1000M	-1	8	0	1000M	-1	8	0	4.82443	-56.1921	-0.382552	-1.74654	0.00016531	21.4967
Mon Aug 26 13:21:36 2024	1000M	-1	7	0	1000M	-1	8	0	4.92196	-56.1976	-0.377459	-1.74631	0.000164378	21.2126
Mon Aug 26 13:21:38 2024	1000M	-1	7	0	1000M	-1	8	0	3.7143	-56.1977	-0.377556	-1.7464	0.00016205	21.2181
Mon Aug 26 13:21:40 2024	1000M	-1	8	0	1000M	-1	7	0	4.98214	-56.1694	-0.403891	-1.7471	0.000162981	22.6866
Mon Aug 26 13:21:42 2024	1000M	-1	8	0	1000M	-1	8	0	3.44812	-56.1966	-0.378519	-1.74649	0.000162516	21.2718
Mon Aug 26 13:21:44 2024	1000M	-1	8	0	1000M	-1	8	0	4.30735	-56.1947	-0.380396	-1.74665	0.00016205	21.3765
Mon Aug 26 13:21:46 2024	1000M	-1	7	0	1000M	-1	7	0	3.75893	-56.1773	-0.396172	-1.74717	0.000162516	22.2561
Mon Aug 26 13:21:47 2024	1000M	-1	7	0	1000M	-1	7	0	3.9462	-56.1727	-0.400406	-1.74717	0.000160187	22.4922

Example of .CSV monitoring log file.



Example of excel chart output based on .CSV monitoring log file.

Having the ability to monitor data and power against a time stamp allows you to identify the exact time the anomaly occurs, the duration of time the anomaly lasts and if it affects both data signal strength and power level. Armed with this information, you can further investigate other activities going on within the same network environment at that time and take corrective action.

The AD-NET-PASSTHRU adapter is compatible with all models of TestPro and Network Service Assistant. It can be purchased from an authorized AEM distributor.

To learn more, visit our YouTube channel: [www.youtube.com/@AEMTestingInnovation](http://www.youtube.com/@AEMTestingInnovation), and check out our PoE & SNR In-Line testing videos.