

Dear Engineer,

This month we bring you a whitepaper that explains the proper way to use and install transmitters in a current loop.

To discuss your application with our team of experienced I/O experts or get a quote, call us at 877-295-7035 or email us at sales@acromag.com.



White Paper: Understanding Two-Wire Transmitters and 4-20mA Loops

As the leading analog transmission standard for industrial I/O, the future continues to look bright for the 4-20mA current loop. The current loop's lossless nature, lower-sensitivity to induced noise, live-zero offset, fail-safe operation, easy scalability and abundance of inexpensive compatible devices make it very popular. Loop-powered [two-wire transmitters](#) and [isolators/splitters](#) which considerably simplify installation and conversion of real world signals (flow, level, temperature, pressure, etc.) into 4-20mA, continue to evolve with modern technologies.



But despite their popularity, two-wire transmitters and 4-20mA loops are often misapplied and many misconceptions exist. This white paper explains the proper way to use and install transmitters in a current loop. You'll also learn how to determine required supply voltages, filter out noise, add fault protection, and compensate for wire resistance.

Download [white paper on using two-wire transmitters and 4-20mA loops](#)

Download [4-20mA isolator and transmitter application notes](#)

Ethernet Application Notes

Download our new [Ethernet Troubleshooting Guide](#) for your reference or one of our many other application notes. Acromag offers several Ethernet application notes to help simplify integration. Application topics include communicating with Red Lion HMIs, Omron PLCs, ABB PLCs, any many more. See the full list of [Ethernet application notes here](#).



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Acromag Marketing Communications Department