

FICTIONAL DEMO DOCUMENT - SPECIMEN ONLY. NOT A REAL PRODUCT, APPROVAL OR CERTIFICATE.

WP-DES

Designing a reliable 4–20 mA loop

Power, wiring, grounding and diagnostics for dependable signalling.

Loop power

Check the supply voltage at the transmitter under worst-case load and cable resistance, not only at the power supply.

Wiring and grounding

Use shielded twisted pair, ground the shield at one point and keep signal cables away from power cables.

Diagnostics

Use NAMUR NE 43 limits so failures are distinguishable from valid measurements.