Problem Solvers
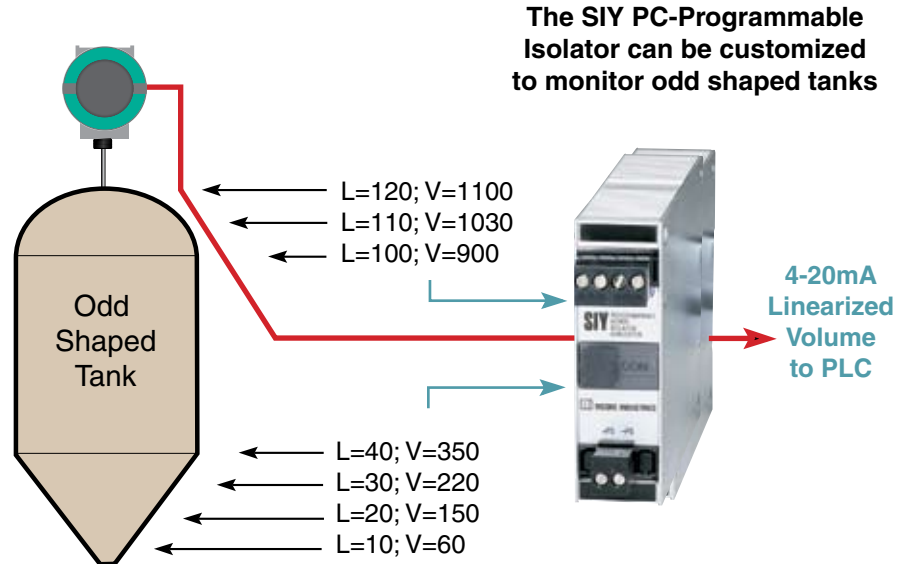## Practical Application Ideas and Technical Information

Signal Transmitters, Isolators and Converters

Custom Linearization Handles Odd Shaped Tank

Problem: I have an odd-shaped storage tank. The output from my level transmitter doesn't correspond to volume because of the nonlinear relationship. I have the strapping data for my tank, but my PLC is overloaded and can't perform the linearization function. Any solutions?

Solution: The SIY PC-Programmable isolator has an 85-point linearization function that will easily handle this problem. Simply enter the strapping data into the table, and it will be linearized and scaled to provide a 4-20mA output proportional to volume.

The SIY PC-Programmable Isolator can be customized to monitor odd shaped tanks

Odd Shaped Tank

L=120; V=1100
L=110; V=1030
L=100; V=900

L=40; V=350
L=30; V=220
L=20; V=150
L=10; V=60

4-20mA Linearized Volume to PLC

Model Number Example
SIY / PRG / 4-20MA / 10-42DC [DIN]

Go to Signal Transmitters, Isolators and Converters Selection Guide

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