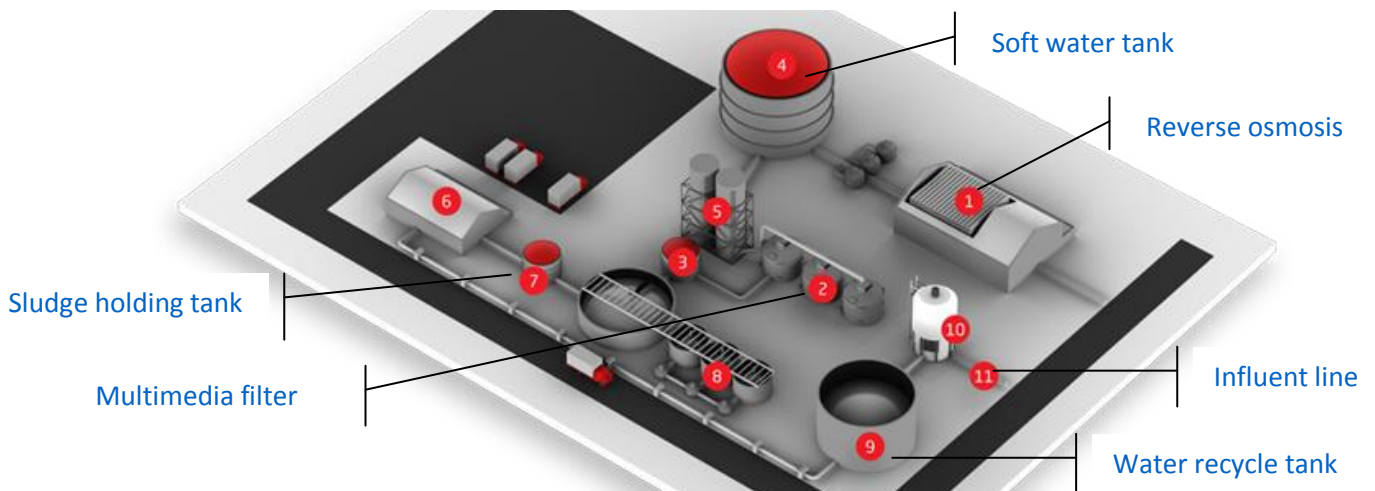
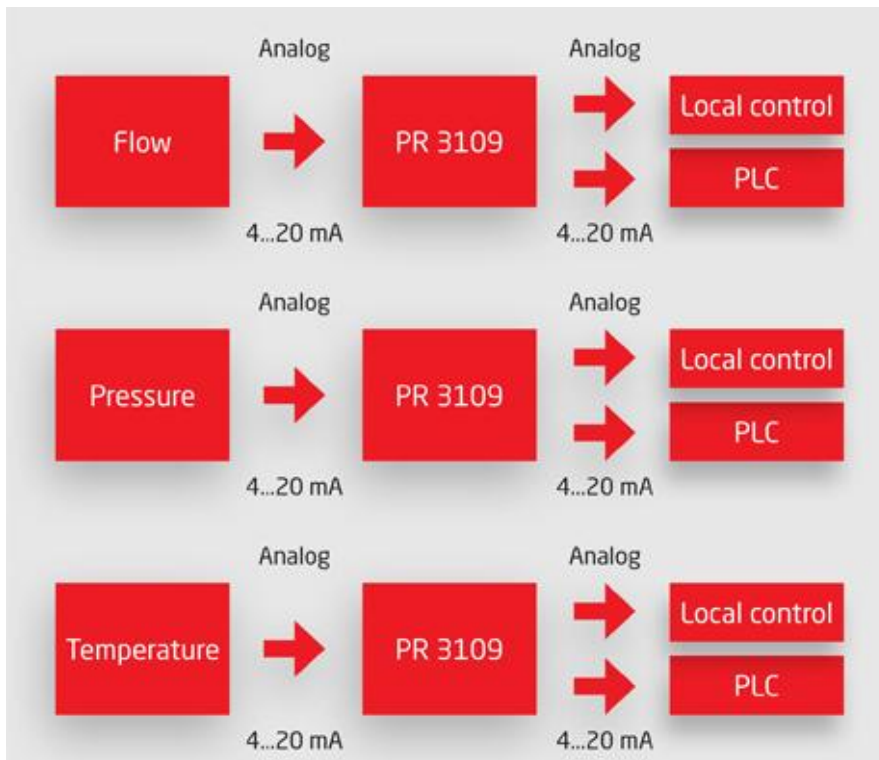


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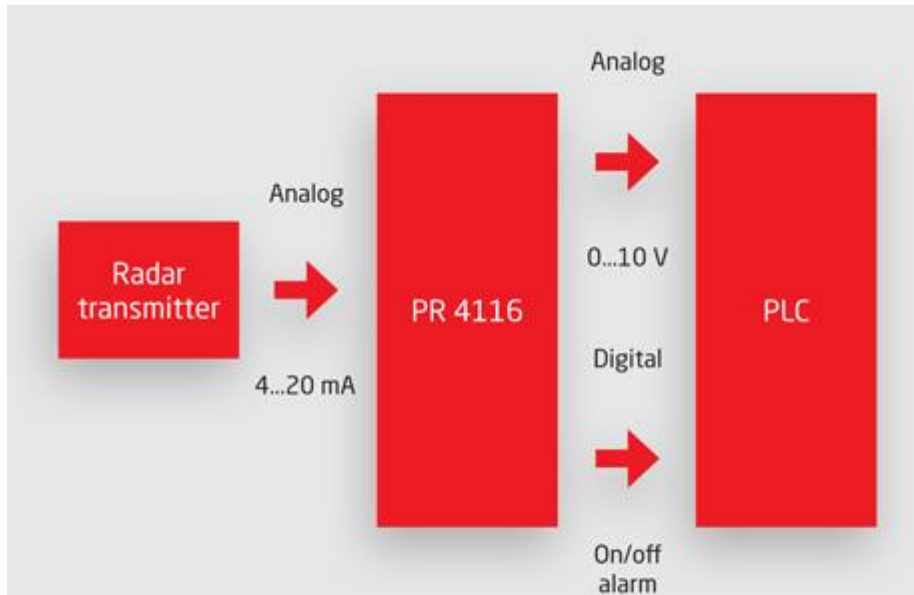
PR 3109 isolated converter / splitter

Measurements like flow, pressure, and temperature are all measured with two-wire transmitters. The output signals from these transmitters are connected to a local control panel and the main PLC. The *PR 3109 isolated converter / splitter* is an excellent solution that powers the two-wire transmitters and provides high isolation between input and both outputs. This is a great replacement solution for older systems where one input is repeated using an extra analog output on the PLC. Our solution results in increased signal accuracy with superfast response time and the spare PLC analog output channels are now available for other tasks.



PR 4116 universal transmitter

Two-wire transmitters are connected to a *PR 4116 universal transmitter* with *PR 4501 display / programming* front attached. The two alarm relays are connected to a digital input card using on and off delay settings in the 4116. The 4...20 mA signal from the sensor is converted to a 0...10 VDC signal for an analog input card on the PLC. With its high isolation and flexible AC or DC power supply, the 4116 is the logical choice here.



PR 9116A universal converter

The DP transmitter is powered, measured, and isolated by the 9116A universal converter. The 9116A can detect any error on the 4...20 mA input signal and set a relay contact output. The *PR 9116A* can convert an active DP transmitter to a passive 4...20 mA output signal.



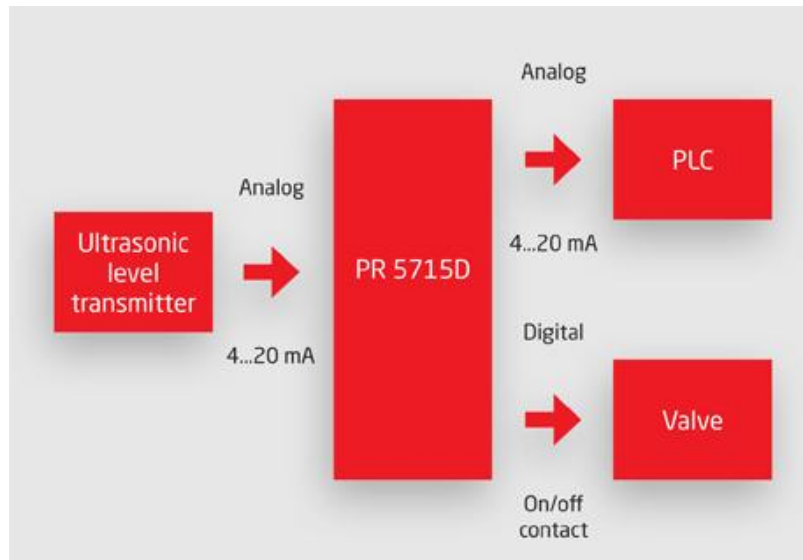
PR 3104 isolated converter

A pressure transmitter is powered by a *PR 3104* isolated converter and the signal is converted to 0...10 VDC and retransmitted to the PLC, with the added benefit of galvanic isolation and strong noise immunity.



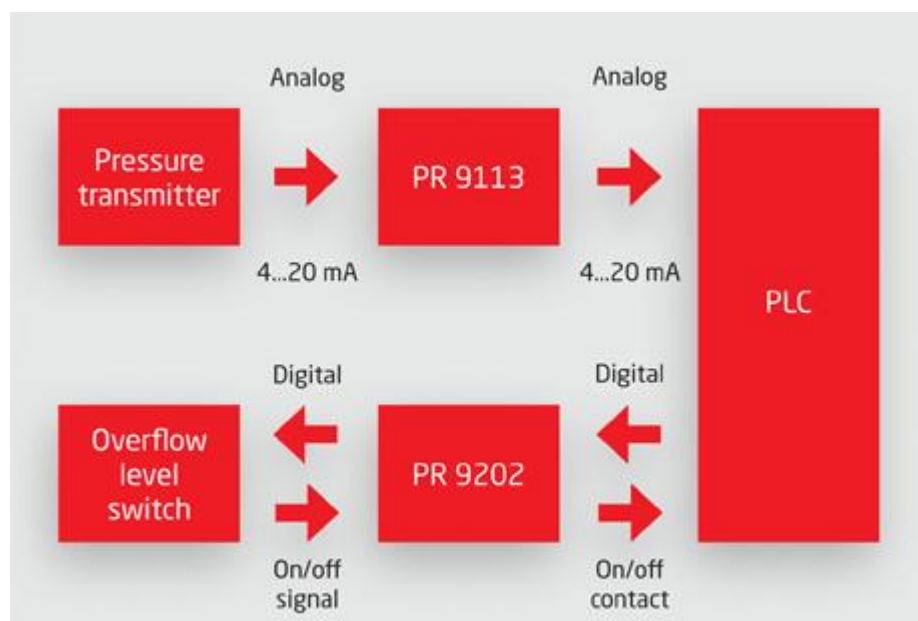
PR 5715D programmable LED indicator

An ultrasonic level transmitter is installed to perform continuous level measurement for uninterrupted monitoring of sludge volume. A simple on/off pump control function is accomplished by using the [PR 5715D](#) programmable LED indicator with four relay outputs. The 4...20 mA signal from the PR 5715D is re-transmitted to the control system.



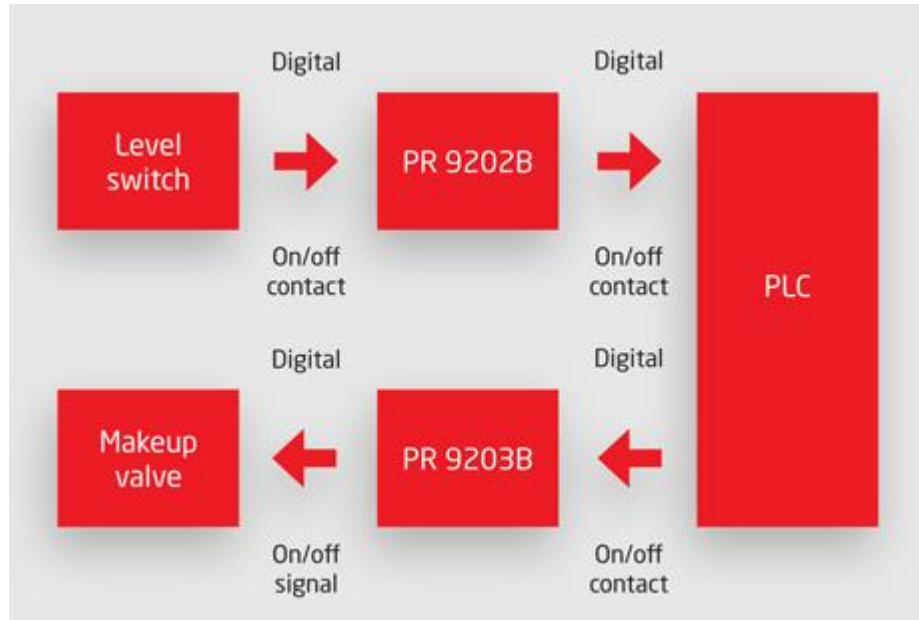
PR 9202B pulse isolator

The tank level measurement is done with a pressure transmitter and overflow protection is accomplished by means of two tank level switches. Both level switches are connected to the double channel [PR 9202B](#) pulse isolator and the active mA signal from the level transmitter is connected to the [PR 9113B](#) temperature / mA converter.



PR 9203B solenoid / alarm driver

The level switch is connected to the *PR 9202 Pulse isolator*, which is measured by the control system. An output from the control system activates *PR 9203B Solenoid / alarm driver*, which controls the makeup valve.



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