

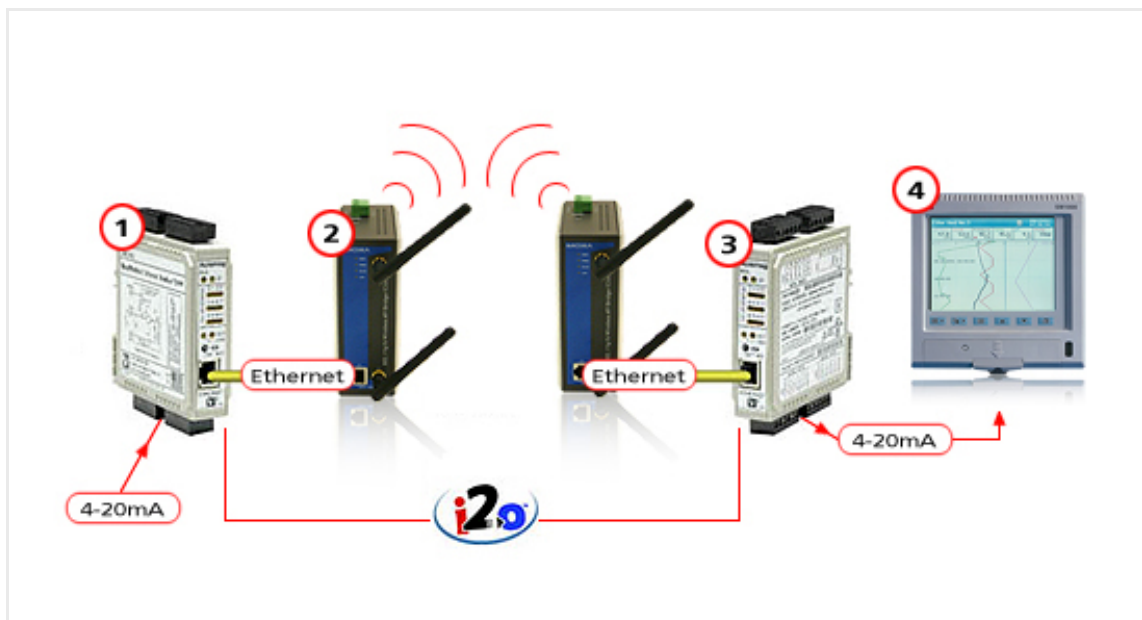


WIRELESS 4–20mA PROCESS CONTROL LOOP

A well known food and beverage company approached Amplicon to come up with a solution to monitor a remote water pumping station that was part of the production line in a separate building.

SYSTEM REQUIREMENTS

Because the flow meters were located in a different building to the SM1000 chart recorder, laying cables was seen as an expensive and disruptive method of transmitting this data.



SOLUTION

To save costs on laying cables between buildings, Amplicon was able to provide an Ethernet wireless LAN solution to transmit the flow meters measurements without the need for cables.

Using the Acromag i2O modules (961EN-4006 and 972EN-4006) back to back enabled the analog values from the flow meters to be transferred over an Ethernet connection and be reproduced as analog signals at the other end of the cable.

To replace the cable between the Acromag modules Amplicon was able to offer a pair of AWK-1100-EU wireless access points to complete the 4–20mA wireless control loop solution.



Parts used

- 1 x **Acromag 961EN-4006** – 6 channel DC current input module with i2O feature, Modbus TCP
- 1 x **Acromag 972EN-4006** – 6 channel DC current output module with i2O feature, Modbus TCP
- 2 x **Directional 8dB Yagi Antenna** indoor/outdoor (not shown)
- 2 x **AWK-1100-EU** – Industrial 802.11g Wireless Access Point
- 1 x **SM 1000** – Videographic recorder



WHY AMPLICON ↘

Amplicon was the supplier of choice as we are able to offer 30 years experience within the IT and Instrumentation industry. Talking to one of our application engineers ensured the right equipment was selected within budget and on time. As an additional service in this case, Amplicon were able to offer an onsite installation giving seamless integration for this solution.