sure cross™
wireless network

Wireless I/O & Irrigation

- Reliable and robust solution for cable replacement

- Industrial housing and waterproof to IP67 sealing degree

- Integrated Signal strength visualisation

- Secure system with alarm and default output if radio link is lost

- Up to 3 km range (line of sight)

- Direct management in real time of irrigation process:
  - Soil moisture measurement
  - Valve control
  - Tank level monitoring
  - Pump activation and many other applications…

- Substantial savings on water and fertilizer consumption

- Ensure optimum crop growth

- Different power options include: 230 Vac or 24 Vdc, Solar Panel or Long-Life Battery

- Possible to link controllers or PLCs with Data Radio wireless modems

- Compatible with all types of sensors

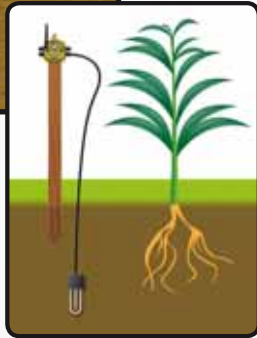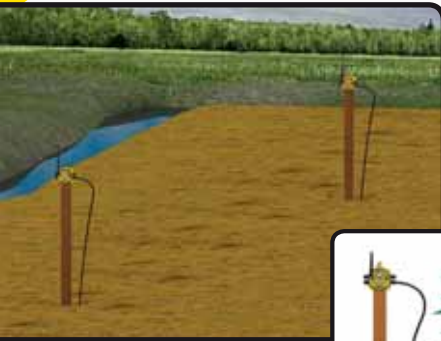- Easy to expand and increase range with repeaters

sensing unplugged.™

BANNER®
more sensors, more solutions

Wireless Solutions for Irrigation

Soil Moisture

Banner offers a simple wireless solution for humidity, temperature, conductivity and accurate measurement of the soil humidity for irrigation system management. Available factory-configured kits offer more than 1 year battery-life with a 1 minute report rate.
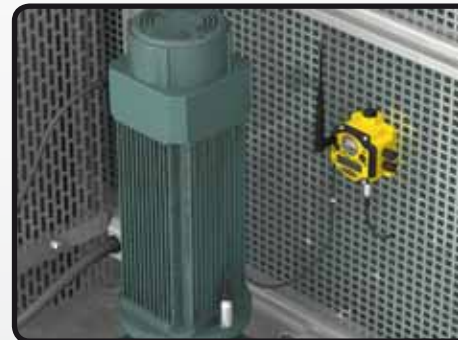
Valve Control

Based on the weather and the crop needs a Wireless Node can control a specific solenoid valve in real-time. This improves daily constant timing irrigation and helps to avoid manual setup of each valve with a handheld pocket device. A FlexPowered Node with a single integrated battery can be used to solve this application and will provide years of power in the field.
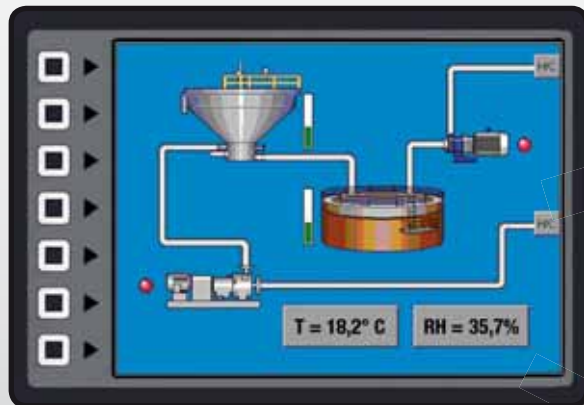
Tank Level Monitoring

A FlexPower Node used in a conjunction with a power-optimized ultrasonic level sensor will collect and transmit the level of a dry or wet tank for up to 5 years on a single battery.
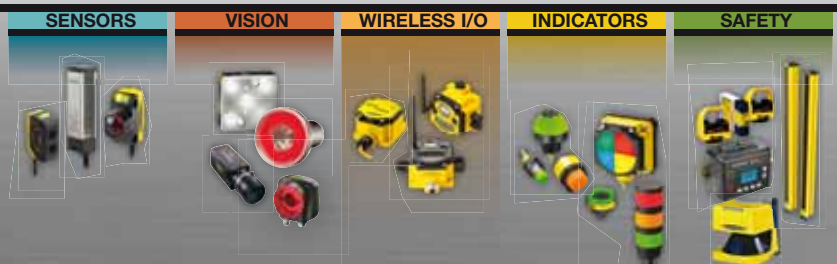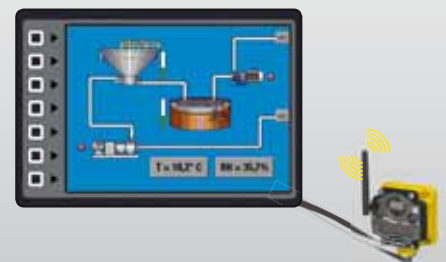
Pump Activation

A Banner Wireless Node, is used to activate a pump that could be used for direct irrigation or to fill a tank. If the radio link is lost for any reason, the Node outputs can be configured to stop automatically and send an alarm to key personnel.

Data Radio, Wireless Modem

T = 18,2° C   RH = 35,7%

Data Radios provide a wireless link for RS232 and RS485. Connect controllers, PLCs or any Modbus enabled device without running cables for power or signal. The Banner Data Radio can be powered by 10-30 Vdc or Solar panels.

Gateway

Data Radio

Banner offers a full range of sensing solutions

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BANNER ®