



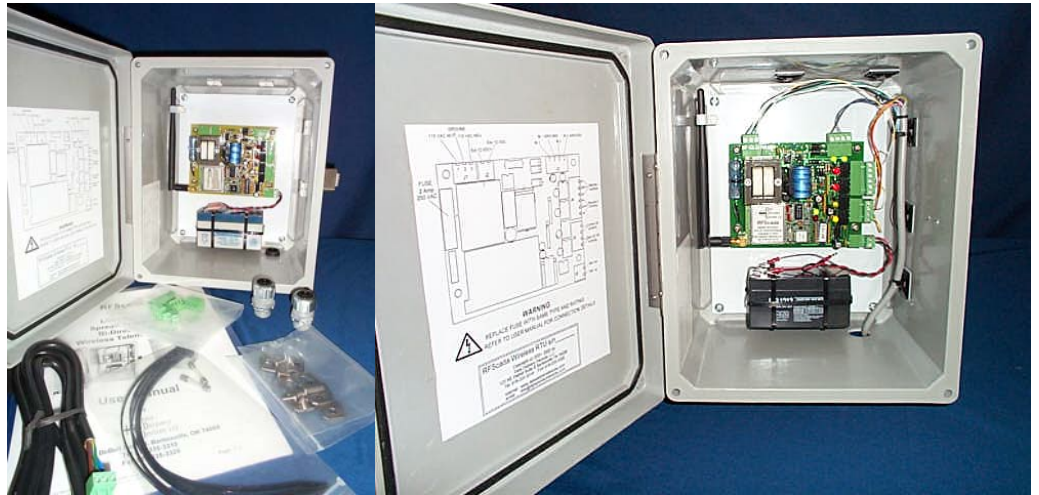
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Compare the RFScada Features

- ◆ Quickly and easily add wireless I/O to existing systems; compatible with virtually all SCADA systems.
- ◆ High reliability, oil field proven industrial grade components.
- ◆ Fully bi-directional and continuous signal exchange ensures each unit is capable of controlling, monitoring and verifying signals at the other unit – continuous, positive verification of correct operation.
- ◆ Out of the box 'Plug and Play' operation, no user programming, configuration or adjustments required. Duplicate a remote relay or switch without any connecting 'wires'.
- ◆ Both units revert to a known state upon failure or communication loss, either local or remote, within seconds.
- ◆ Built in additional outputs indicate the state of the opposite units AC power and verified communication status.
- ◆ Built in dual power supply options (115 VAC or 12 to 28 Volts DC) plus internal 6-hour full function power fail capability, for highest system reliability.
- ◆ Long range of up to 25 miles with an external antenna; up to 7 miles with the standard enclosed antenna.
- ◆ Completely prepackaged solution in a corrosion resistant, NEMA 4X enclosure ready to be installed; requires just power and signal connection for operation. Most applications will not require an external antenna.
- ◆ Uses the 900MHz ISM band which provides much greater range and vastly improved interference rejection than the congested, short range 2.4GHz consumer band.
- ◆ Networks with the larger RFScada 4ADI-5DO & 8ADI-9DO devices - operates with up to 31 other units for complex applications.
- ◆ No license required for ownership or operation in the USA. Fully FCC approved.
- ◆ Highest data integrity, extensive error rejecting data communication to prevent the possibility of false signals.
- ◆ Wide industrial temperature range

*** Reliable *** RFScada *** Economical ***

Bi-Directional, Spread Spectrum Wireless Telemetry



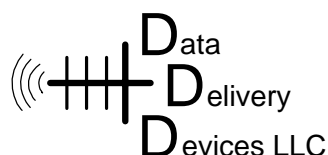
A pair of RFScada units provide a complete, high reliability, long range, spread spectrum, bi-directional wireless transmission and reception interface that allows remote monitoring and control of discrete signals. The states of twin contact or logic level inputs at each unit are replicated by corresponding relay contacts at the opposite units. The RFScada system has applications in the SCADA, oil, gas, water, security and many other industrial fields.

The basic RFScada unit is designed for high reliability, low I/O count applications such as tanks, pumps, lift stations, access control & monitoring. This is a very cost effective alternative solution to digging trenches or laying cable when connecting to equipment in isolated or in-accessible remote locations.

Unlike competing models the RFScada devices maintain continuous, **bi-directional** communications, for positive verification of correct operation in both units; plus **immediate indication** of control & monitoring status. No more guesswork or unknowns caused by 'report on exception' and 'one way transmit' type units, which may give no indication in the case of a failure.

Please consult with the factory for customization or additional models, such as systems with additional I/O, analog signal transmission, master & multiple slave systems etc.

Download the complete documentation & manuals from the web!!



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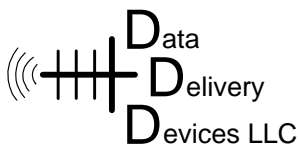
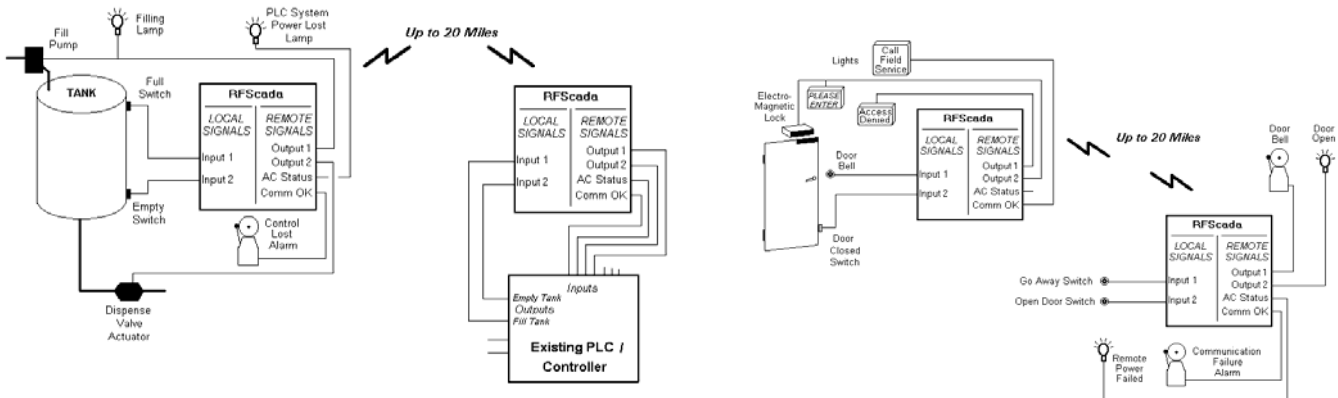
internet.... www.datadeliverydevices.com
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Specifications.....

Note: specifications subject to change due to continual product improvements.

AC Operating voltage	115 VAC +/- 10% 48 – 62Hz
DC Operating voltage	10 to 18 Volts DC
AC Power consumption	<0.5 Amp
DC Power consumption	< 0.25 Amp
On board AC input fuse rating	2 Amp 115 VAC
AC Input transient protection	Yes, 10,000A 120 Joule MOV on board
Enclosure rating	UL 508, CSA and NEMA 1,2,3,4,4X,12, 13 IEC 529, IP66
Enclosure type	Fiberglass with stainless steel hardware
Enclosure door closure types	Lockable snap latch or screw close available
Dimensions	11.75 H x 11.75 W x 6.75 D inches
Weight	8.5 Pounds
Temperature rating	-20°C to +70 °C
Humidity	15-95% non-condensing
Minimum telemetry update rate	4 times per second (bi-directional)
Transmission method	Bi-directional spread spectrum frequency hopping
Operating frequency	902-928 MHz ISM band
RF data encryption method	Proprietary 16 bit cyclic redundancy checking with 25 channel hopping
Signal data encryption method	Proprietary rolling code plus 16 bit cyclic redundancy check
Internal antenna supplied	Yes, 2.1 dB Gain omni-directional half wave dipole
Range with internal antenna	Up to 7 miles line of sight
Range with external antenna	Up to 25 miles line of sight
License required	None (USA)
FCC approved	Yes
AC power state transmitted	Yes
Input signal channels transmitted	2, plus AC line condition and communication OK state
Input channel signal type	Low voltage (5V) contacts or logic level
Input signal voltage required	None
Input signal transient protection	Yes, 1500W MOV's, surge and RF filters
Input signal status indication	Yes, on board LED's, one per channel, post de-bounce.
Input signal cable length	Maximum 250 feet
Input signal de-bounce time	Approximately 0.25 second
Input signal (transmission) status	Yes, on board LED indicates each data transmission
Output (received) signal channels	2
Output (received) status channels	2, one for other units AC power state, one for communications OK
Output (received) signal contact ratings	SPDT 0.5 Amp at 115 VAC, 1 Amp at 30 VDC
Output (received) status contact ratings	SPST 0.5 Amp at 115 VAC, 1 Amp at 30 VDC
Output (received) signal indication	Yes, 2 on board LED's, one per channel, show true relay state
Output (received) AC line indication	Yes, on board LED shows AC condition at opposite unit.
Output (received) Comm indication	Yes, on board LED shows correct communication link.
Output (received) data status	Yes, on board LED indicates each CRC verified data reception
Output (received) data response time	<0.5 second (includes transmitter input signal de-bounce time)
Output (received) AC fail response time	<1 second
Output (received) Comm fail response time	<3 seconds
Output (received) data hold time	Present state maintained for 5 seconds after received signal loss
Power fail protection	Yes, internal 1.2 Amp / hour sealed lead acid battery
Internal backup battery life	2 - 5 Years continuous operation
Power fail operation time	Minimum 6 hours

Typical Applications...



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