

# Communication

iSIC data loggers

- *Adapt to project requirements*
- *Employ cost-effective monitoring*
- *Ensure reliable data transmission*
- *Maximize data collection capabilities*
- *Connect globally with environmental data*

NexSens **A50** junction boxes are perfect for wiring multiple sensors to an **iSIC** data logger. Housed in NEMA 4X rated enclosures, these devices are designed to uphold the superior data acquisition performance that customers expect from **iSIC** data loggers. Each **A50** features four weatherproof entry/exit ports and an internally mounted twelve position terminal strip for system connections.

There are three antenna options for spread spectrum radio applications. The **A41** omni-directional antenna is an excellent choice for remote communication at distances beyond 1 mile. The **A46** Yagi radio antenna is the best option for use in situations where communication signals must travel extended distances or are impeded by tree cover. The **A44** high gain radio antenna is a portable and cost-effective solution for remote communication at distances up to 1 mile. All radio antennas feature a weatherproof enclosure and 150 mph wind survival.

The **A49** high gain cellular antenna is required for remote communication via GPRS/GSM, EDGE, or CDMA cellular transmission. Similarly, the **A42** Iridium satellite antenna is required for remote communication via Iridium satellite telemetry. Both cellular and satellite antennas feature a weatherproof enclosure for reliability in harsh environments.

NexSens micro-loss and low-loss RF cables provide secure connections between a cellular, radio, or Iridium satellite **iSIC** data logger and its corresponding antenna. High grade cabling reduces signal noise, and dual-sided integral N-style connectors interface easily with **iSIC** data loggers and NexSens antennas. Various lengths are available for adaptation to individual project requirements.

# Communication

iSIC data loggers

## contents

### A50 - Junction Box

- (1) NEMA 4X enclosure, 10" x 8" x 6"
- (1) Terminal strip, 12-position, pre-installed
- (4) Cable entry/exit ports
- (4) Gland fittings
- (2) Port plugs
- (1) Pole/wall mounting kit
- (2) Pole mount brackets, for 2" pipe

### A41 - Radio Omni-directional Antenna

- (1) Radio antenna, Omni-directional, 890-960 MHz, 5 dBd gain
- (1) Pole/wall mounting kit

### A46 - Radio Yagi Antenna

- (1) Radio antenna, Yagi, 866-960 MHz, 10 dBd gain
- (1) Pole/wall mounting kit

### A44 - Radio High Gain Antenna

- (1) Radio antenna, 902-928 MHz, 3 dBi gain
- (1) Pole/wall mounting bracket
- (2) Stainless steel hose clamps for pole mounting, 2.75" max diameter

### A49 - Cellular High Gain Antenna

- (1) Cellular antenna, 821-896 MHz, 3 dBi gain
- (1) Pole/wall mounting bracket
- (2) Stainless steel hose clamps for pole mounting, 2.75" max diameter

### A42 - Iridium Satellite Antenna

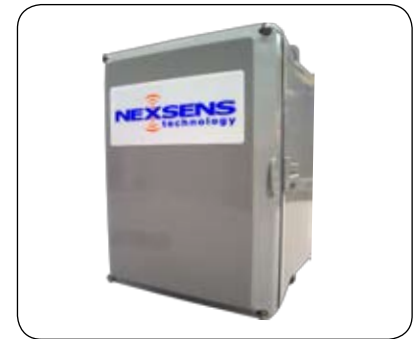
- (1) Satellite antenna, 1600-1630 MHz, 2 dBi gain
- (1) Pole/wall mounting bracket
- (2) Stainless steel hose clamps for pole mounting, 2.75" max diameter

### Micro-loss RF Cables

- (1) RF cable, 2' and 6' lengths available
- (2) N-style RF connectors

### Low-loss RF Cables

- (1) RF cable, various lengths available
- (2) N-style RF connectors



## parts list

Part #	Description
A50	Junction Box
A41	Omni antenna, radio frequency
A46	Yagi antenna, radio frequency
A44	High gain antenna, radio frequency
A49	High gain antenna, cellular frequency
A42	Iridium antenna, satellite frequency
A35	RF cable, micro-loss, N-style, 2'
A36	RF cable, micro-loss, N-style, 6'
A36-SMA	RF cable, micro-loss, N-style & SMA connectors, 6'
A31	RF cable, low-loss, N-style, 10'
A32	RF cable, low-loss, N-style, 20'
A33	RF cable, low-loss, N-style, 50'
A34	RF cable, low-loss, N-style, 100'



**937.426.2703**  
8am to 7pm EST, Monday-Friday

**937.426.1125**  
24 hours a day, every day

NexSens Technology, Inc.  
PO Box 151  
Alpha, OH 45301-0151

**E** info@nexsens.com

**→** nexsens.com