



MINI-SAT™ FIELD STATION

Model Number MINI-SAT

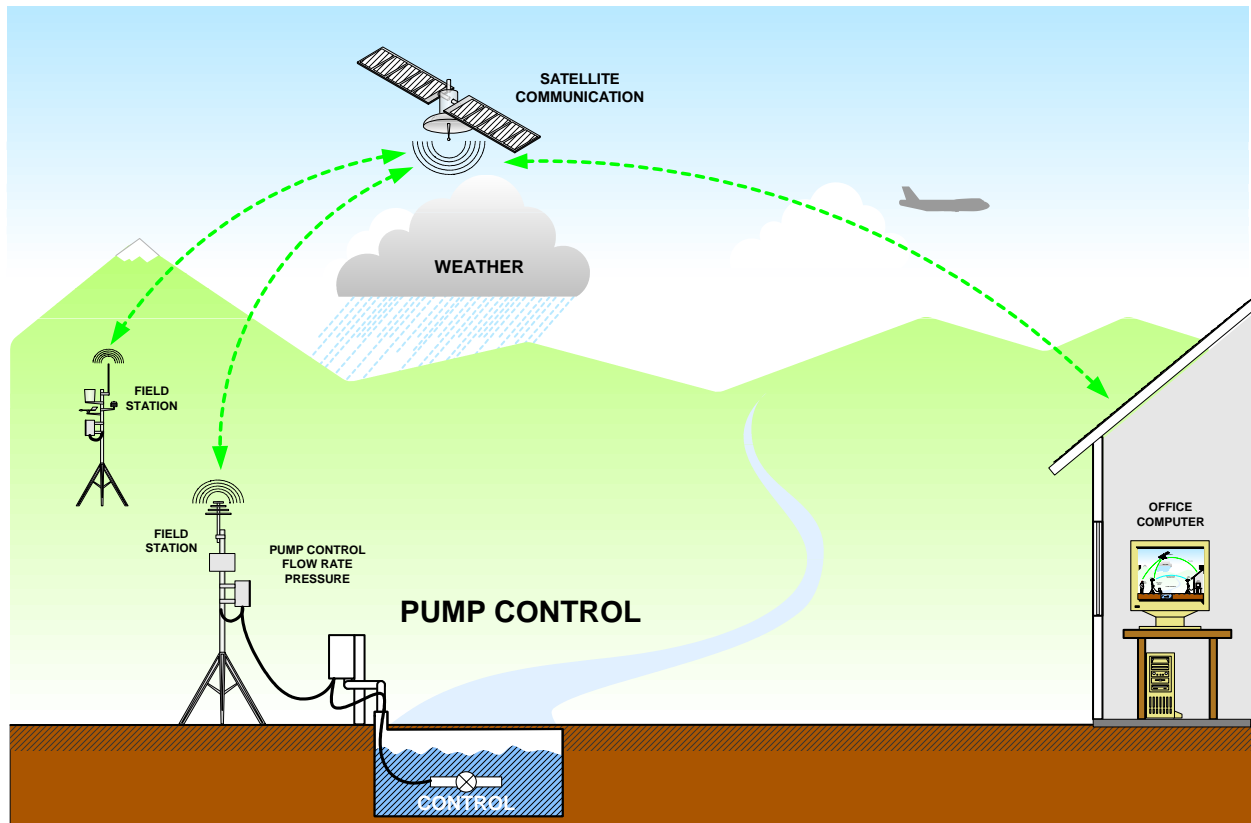
FEATURES

Automata's MINI-SAT™ Field Station is an economical way of remotely monitoring/controlling agricultural or industrial sites where a moderate amount of communication is needed. As an example, the MINI-SAT™ can control gates or valves from the comfort of the Internet. The user can be notified of any changes through email, phone, or the changes can be viewed on the Internet. These units can be used in a network with single user software such as Automata's FIELD VISION or in a web server application. The MINI-SAT™ is perfect for agriculture, water distribution and remote industrial environmental sites. Automata's technology has made the MINI-SAT™ economical for solar sites. Only an unobstructed view of the sky is needed for communication. The user requires no infrastructure, base station or added software. Two types of Chassis are available, NEMA 4 with hinged door or Fence Post (long or short).



| Specifications - Operating Modes | |
|--|---|
| Timed Mode | Sensor values and/or control output status are reported at user programmable time intervals. |
| Event Mode | A report of any digital (ON/OFF) input is generated whenever one such input changes state. |
| Accumulator Mode | Digital inputs may be programmed as pulse counters. |
| Control Output - (optional) | 0.1A current sink per control output, 12 V supply available internally to drive load. If external supply is used, maximum voltage = 24Vdc |
| Up to 3 controls available per MINI Station and are expandable. | |
| 4 Analog Sensor Inputs (10 bit) standard, 4 optional | 0-5V, 0-1mA, 0-20mA, 4-20mA. Signal conditioning available for 1 channel to accommodate mV signals and battery voltage. |
| Digital Sensor Inputs (optional) | Contact Closure, 0-5V, Pulse Counters |
| Distance | Anywhere with an unobstructed view of the sky |
| Power Supply | 12V at 5mA Standby, 70mAmps@12.8V, Receiving enabled, 2A Trans. |
| Relative Humidity | 0 to 100% non-condensing |
| Temperature | -40° to 60°C |
| Options: Chargers – AC or Solar, Lightning and/or Surge Protections, Cord Grips for Wiring. Nema 4 or Fence Post Chassis | |

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| Nevada City | | | |
|---------------------|--------------|--------------|-----------------------|
| <u>Sensor</u> | <u>Value</u> | <u>Units</u> | <u>Timestamp</u> |
| Rain | 0.33 | Inches | 1/13/2005 10:15:29 AM |
| Controls | Off | Bit | 1/13/2005 10:15:29 AM |
| BatteryVolts | 13.72 | Volts | 1/13/2005 10:15:26 AM |
| AirTemp | 34.06 | Degrees F | 1/13/2005 10:15:27 AM |

Screen Shot of the Nevada City MINI-SAT™ Field Station.
 Located in Nevada City, California