

MINI FIELD STATION



FEATURES

- Low Cost
- Low Power
- Economical Remote Operation (where only solar power is available)
- Compatibility with Many Manufacturers' Sensors
- Compatibility with **DATA \rightleftharpoons LYNX[®]** Infrared, Radio, Phone, and Hard Wired Telemetry Equipment
- License Free, Spread Spectrum Radio is Available
- Mod Bus Protocol is Available
- Logging Capability with some models

GENERAL DESCRIPTION

Automata's MINI Field Stations offer unprecedented economy in Supervisory Control and Data Acquisition (SCADA) Systems. They have many applications across industry boundaries such as agriculture, water distribution, light industrial, and environmental monitoring. Remote communications include hard wire, infrared, phone modem, and radio (including license free spread spectrum radio).

Each MINI can monitor up to 4 analog inputs, optionally 4 digital inputs, and optionally operate 4 controls. The MINI Station has user programmable features including programmable identification number, report interval, sensor warm-up time, and input/output channel selection. MINI Stations only have peer-to-peer communications capability. The MINI is available in Dual and Triple models. It is housed in a NEMA-4 chassis.

INSTALLATION

It can be conveniently wall mounted or 2" pipe mounted. A 2" conduit fitting for wiring is standard. Other options include cord grips for individual cables and no holes to allow customizing for user.

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DATA \rightleftharpoons LYNX[®] MINI Field Stations

SPECIFICATIONS

Operating Modes:	
Timed Mode	Sensor values and/or control output status are reported at user programmable time intervals (1.0 minute minimum).
Event Mode	A report of any digital (ON/OFF) input is generated whenever one such input changes state. Digital event inputs may be programmed as pulse counters.
Analog Event Mode -	A change in the reading of an analog channel generates a report for earlier detection of rapidly changing conditions.
Interrogation	Any sensor value or control status can be interrogated at any time.
Repeater Capability	Any radio telemetry station can be programmed to operate as a repeater, thereby extending the effective size of a SCADA system.
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 4 controls available per MINI Station (8 with MINI-P-DUAL, 12 with MINI-P-TRIPLE Stations)	
Analog Sensor Inputs (10 bit):	0-5V 0-1mA 0-20mA 4-20mA
Signal conditioning available for 1 channel to accommodate mV signals.	
4 analog inputs included in price of each MINI Field and Base Station. (SS base station excluded.)	
Digital Sensor Inputs (optional)	Contact Closure 0-5V Pulse Counters
Up to 4 can be ordered for each MINI Field Station (8 for a MINI-P-DUAL Station, 12 for MINI-P-TRIPLE.)	
Serial Data	RS232C, SPI, IO ² C
Baud Rate	Up to 19,200 Baud, 2,400 Baud standard
Distance	Depends on type of communication
Power Supply	12V at 5mA (200 μ A in power down mode) plus Transceiver
Relative Humidity	0 to 100% non-condensing
Temperature	-40° to +60°C
Options	
Transmit Only for Low Standby Power when using narrow band radios.	
AMC Chassis with switches and LED status indicators for local control.	
Relay Boards	
Chargers – AC or Solar	
Lightning and/or Surge Protection	
Memory for Logging	
Telemetry	Infrared
	Radio, 136 – 174 MHz VHF and 450 – 470 MHz UHF
	License Free, Spread Spectrum Radio
	Phone Modem
	Wire
Cord Grips	For Wiring
No Holes	For Wiring