

Specification Sheet

McCrometer CONNECT
Mini-SAT™ Premium
Field Monitoring Station

Features & Benefits:

Satellite Technology

The premium satellite radio makes this station ideal for monitoring essential parameters in remote areas and features a very low latency.

Power Management

Conserves power by going into sleep mode when not transmitting, making solar power an ideal source solution when AC power is not available.

Versatility

Unit has a built in frequency to analog conversion making it compatible with digital outputs from most flow meters and other sensor types.

Value

This robust system is an economical choice for monitoring a limited amount of sensor inputs such as water volume, soil moisture, rain, wind or temperature.



McCrometer CONNECT Mini-SAT Field Monitoring Station shown with optional solar panel and user-supplied mast.

Description

The MINI-SAT Premium Field Station was designed to meet the needs of a broad range of agricultural applications including soil moisture monitoring, weather monitoring and control.

This popular system is housed in a durable waterproof case and is fitted with 8 pulse and 4 digital inputs. These are ideal for users collecting moderate amounts of information wirelessly from remote sites.

This system also offers event reporting to notify users when a specific event has happened in the field. It is compatible with wide a range of pulse and digital sensors, making it an ideal choice for wireless irrigation and crop management.



McCrometer CONNECT Mini-SAT Premium Field Monitoring Station



Specifications

I/O-Ports	8x analog in, 0 to 5V DC std. (0 to 10V, 0 to 15V, 0 to 20V, 0 to 500uA, 0 to 1mA, 0 to 20mA jumper configurable)	Connectors on Premium radio board	3x 6-position pluggable header for Computer, Mini Direct, Modem
	4x digital in, internal 5V pullup (on/off status,		1x 4-position pluggable header for Battery connector
	accumulator for rain, wind run, flow total etc. Software configurable)		1x SMA Antenna connector with integral lightning protection
	4x control out, 100mA sink, 24V DC max (on/off, momentary, repeating momentary, paired. Software configurable)	Memory	256 byte electrically erasable internal memory for configuration / accumulator data
	2x RS232 port		2 MB MMC removable card for logged data (if required for logging)
	1x USB port		3dBic, 1616-1626.5MHz, Ground Plane Independent, Magnet Mount
	1x RS485 port	Antenna	
	1x I ² C port	Tx Output Power	1.6W average
Resolution	1x SDI-12 port (Up to 8 data points can be reported) 10-Bit @ 0 to 5V	Transmission distance	Low earth orbit satellite
Measuring	Synchronous & asynchronous	Type approvals	Radio Module: FCC, CE Mark, Industry Canada
method		Battery	Sealed Lead Acid Absorbed Glass Mat, 12V, 5Ah
Sampling interval	Programmable: 1 minute minimum to days	Operating time	Up to 13 days without charging (hourly reporting)
Sensor excitation	5V switched (regulated), 12V switched (unregulated), 12V continuous (unregulated), 18V switched (unregulated). Jumper configurable	Temperature range	+14 to +185°F (-10 to +85°C) operating
Connectors on	3x 12-position spring clamp pluggable terminal		-58 to +185°F (-50 to +85°C) storage
MultiMINI board	block for Analog and Digital inputs	Case	Polycarbonate, IP 66 (depending on cable entry choice)
	1x 4-position spring clamp pluggable terminal block for RS485 communications (if required)	Dimensions	13.82 x 12.25 x 8.50 in. (351 x 311 x 216 mm)
	1x 2-position spring clamp pluggable terminal block for Battery charger	Mounting	2 in. (60 mm) pipe, opt. wall mount
		Weight	13 lbs. (5.9 kg)
	2x 6-position pluggable header for Controls and RS232		
	4x 4-position pluggable header for RSSI, Aux Data Port, I ² C port, Battery connector		
	1x USB connector		
	1x MMC card holder (if required for logging)		

Ordering Information

Description	Part Number
Mini-SAT Premium	630-6030-100

Optional Accessories

Description	Part Number	Description	Part Number
AC Charger, Internal mount, 1.7A @ 13.8V DC, Input 88-264V AC	630-0502-000	Relay, 120 /240V AC solid state, 10A, with safety cover	629-0500-101
300 mA solar panel with regulator (13.8V DC nom.) and mounting bracket	630-5000-003	Relay Board with 4 relays, 24 to 240V AC solid state, 4A	629-0500-404
600 mA solar panel with regulator (13.8V DC nom.) and mounting bracket	630-5000-006	Relay Board with 4 relays, 240V mechanical (AC or DC), 3A	629-0500-314
1200 mA solar panel with regulator (13.8V DC nom.) and mounting bracket	630-5000-012		

