McCROMETER CONNECT

Specification Sheet

McCrometer CONNECT NanoCourier-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 solution when AC power is not available

Compatible With Existing Sensors
The system has a built-in frequency-to-analog converter, 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 and temperature

Versatility
A wide variety of configurable parameters enables users to monitor a variety of applications

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

Description

The McCrometer CONNECT NanoCourier-SAT Premium field station was designed to monitor several analog and digital parameters for remote meter reading. It is also an excellent economical choice for other monitoring applications that only require a few sensor inputs.

The Nano board, satellite modem, and rechargable 12v battery are enclosed in a Nema 4 chassis. The unit comes with both wall and pole mounts.

The Nano can sample up to 2 analog and 2 digital inputs. The analog inputs can be configured as voltage or current inputs. The digital inputs can also be configured to work with standard pulse outputs. One input can be configured as a high speed frequency counter that is ideal for low cost, low power flow rate monitoring.

It can be set to sample/transmit at user defined intervals as well as event based reporting in response to critical conditions.

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McCrometer CONNECT Nano-SAT
Premium Field Monitoring Station

Specifications

I/O-Ports:	2x analog in: 0 to 5VDC standard (0 to 500uA, 0 to 1mA, 0 to 20mA with included resistors)
	1x analog out: 0 to 1mA standard (0 to 5V or 4 to 20mA optional)
	1x frequency input (10kHz, 10ms minimum pulse width) for wind speed, flow monitoring, etc.
	1x pulse output (frequency input divider)
	1x pulse counter input for rain, wind run, etc.
	2x RS232 port
Resolution:	10-Bit @ 0 to 5V
Measuring Method:	Synchronous & asynchronous
Sampling Interval:	Programmable: seconds to days
Sensor Excitation:	Unregulated battery 12V nominal, regulated 5V
Connectors:	12x Screw terminal
	1x SMA Antenna connector
Internal Memory:	256 byte configuration / accumulator data
Antenna:	3dBic, 1616-1626.5MHz, Ground plane independent, magnet mount, 5 ft. (1.5 m) cable
Tx Output Power:	1.6W average
Transmission Distance:	Low earth orbit satellite
Type Approvals:	Radio module: FCC, CE Mark, Industry Canada
Battery:	Sealed lead acid absorbed glass mat, 12V, 5Ah
Operating Time:	Up to 30 days without charging (hourly reporting)
Temperature Range:	operating: +14°F to +185°F (-10°C to +85°C)
	storage: -58°F to +185°F (-50°C to +85°C)
Case:	Polycarbonate, IP66 (depending on cable entry choice)
Dimensions:	13.82 x 12.25 x 8.50 in. (351 x 311 x 216 mm)
Mounting:	2" (60 mm) pipe (optional wall mount)
Weight:	13 lbs. (5.9 kg)

Ordering Information

Item	**Part Number**
Nano Courier-SAT Premium:	630-6010-003
Optional Accessories	**Part Number**
AC Charger:	630-0502-000
Solar Panel, 100 mA:	630-5000-001
Solar Panel, 300 mA:	630-5000-003
Solar Panel, 600 mA:	630-5000-006
Solar Panel, 1200 mA:	630-5000-012

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