McCROMETER CONNECT®

Specification Sheet

McCrometer CONNECT®
A755 GPRS SDI-12
Field Monitoring Station

Features & Benefits:

Cellular Technology
Ideal for frequent monitoring and reporting in remote areas.

Power Management
Includes a rechargeable 6.2 NiMH battery, extremely low-power usage and ideal for use with solar power.

Sensor Compatibility
This station supports two pulse counters, up to two digital inputs and up to 40 SDI-12 sensor inputs. It is ideal for soil moisture monitoring, water quality monitoring or any other application interfacing with SDI-12 sensor protocols.

Value
This system is a reliable, robust, & scalable system that is easy to deploy and maintain. It is contains a flash memory so new features and firmware can be easily uploaded and will provide many years of performance and low cost of ownership.

McCrometer CONNECT A755 GPRS SDI-12 Field Monitoring Station shown with optional solar panel and user-supplied mast

Description

The A755 GPRS SDI-12 field station is designed to interface with SDI-12 smart sensors for applications such as soil moisture and environmental monitoring.

This popular system provides users with a cost effective means of logging multi-parameter sensors which make use of the SDI-12 protocol.

The A755 is housed in a waterproof aluminum case and is fitted with two pulse inputs for connection to flow meters or rain gauges. It also has two digital inputs that can be used with switches and relays. One digital line can be activated and used SDI-12 communication and supports up to 40 DSDI-12 inputs.

This station includes an integrated rechargeable NiMH battery designed to work with a compact solar panel.

The station can be configured to record data at user defined intervals (as frequently as every minute). It can also be set to deliver the recorded data at whatever regular interval the user desires (every 15 minutes, every hour, etc.).

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

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Specifications

I/O-Ports:	40x SDI-12 values for weather and soil moisture sensors 2x digital in/out (0 to 3V TTL) 2x Pulse counter (30 Hz, normally open) for rain, flowmeter, etc. 1x RS232 port
Sampling Interval:	10 Sec. to 12 Hr., sensor restrictions apply
Sensor Excitation:	Unregulated battery 5.6V to 7.2V
Connectors:	2x Binder M9 7-pin to SDI-12, Pulse counter 1x Binder M9 5-pin to solar cell / power supply 1x TNC Antenna connector
Internal Memory:	2MB for up to 500,000 values
Antenna:	2dBi, 850/900/1800/1900 MHz, omnidirectional
Tx Output Power:	2W (depends on frequency)
Transmission Distance:	22 miles (36 km) max.
Type Approvals:	FCC Part 15, Industry Canada, R&TTE, ACMA Australia, etc.
Battery:	NiMH battery, 6.2V, 3.1Ah
Operating Time:	Powersave mode: 6 months Standard mode: up to 21 days
Temperature Range:	-22 to +149°F (-30 to +65°C)
Case:	Powder-coated aluminum, IP 67
Dimensions:	6.30 x 2.36 x 3.15 in. (160 x 60 x 80 mm)
Mounting:	1.5 in. (38 mm) mast; optional wall mount
Weight:	2.54 lb. (1.15 kg)

Ordering Information

Description	Part Number
A755 GSM/GPRS SDI-12	100.755.010

Optional Accessories

Description	Part Number	Description	Part Number
H24 7-band GPRS/3G UMTS Modem	900.000.099	Wall mounting kit	900.000.423
Antenna, Omni, 2dBi, GSM Quadband, including mast bracket and 5m cable	900.000.567	AC Power Supply	200.720.523
Battery, Lithium-Thionyl, 14.5Ah	800.000.277	Solar Panel, 460mA	200.733.522
LED Tool	200.720.530	Activation Switch for operation with Lithium Battery	200.720.560

McCROMETER 3255 WEST STETSON AVENUE • HEMET, CALIFORNIA 92545 USA www.mccrometer.com
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