

Operator's Guide

AeroMate™ WSC – Uplink Manager



Non-Incendive, Intrinsically Safe for Class I, Group C & D Hazardous Locations

U.S. Patent Numbers 6,194,793 and 6,462,507
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Introduction

The Uplink Manager is designed to specifically serve as a Personal Area Network (PAN) coordinator, an interface to internet enabled gateways and the application manager for various sensors and controls working together through a common network.

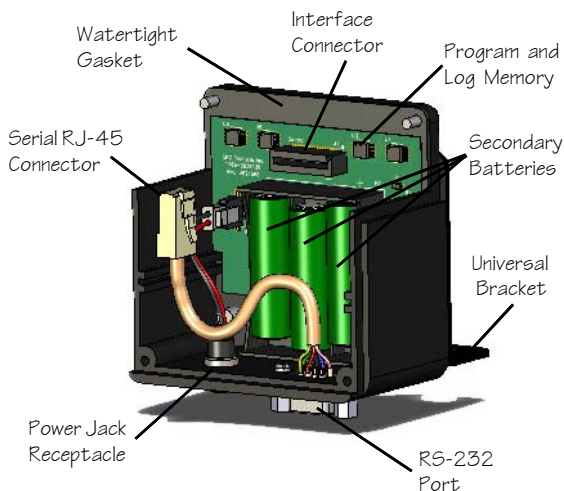
As a PAN network coordinator, the Uplink Manager's RF module remains powered all the time. To support the additional coordinator power demands, the Uplink Manager provides an extra, auxiliary battery pack.

The Uplink Manager's RS-232 serial port connector provides an interface to internet enabled gateways, long range radios or other data modems. Standard communication protocols include WHIP and Modbus.

vTagNet™ technology provides a virtual wire tag system to share analog (nTag) and digital (eTag) data with all sensors and controls connected to the PAN. The Uplink Manager collects, consolidates and distributes vTagNet data all devices linked through the common PAN.

The Uplink Manager's application program may be modified using the ChartWriter™ programming utility or completely re-programmed as required.

Uplink Manager Module



The Uplink Manager Module includes an auxiliary 3xAA Battery pack, an external RS-232 9-Pin serial port connector, an external power jack receptacle, a universal 2" pipe or motor valve mount, and rear panel gasket.

System Setup

Modules communicate and share vTagNet data over a closed network identified by the PAN#. The PAN# must be set the same number for all the devices on the same network to work together.

S1: Press <> for SYSTEM Setup

◀▶	DEV Link	PAN#
	ED YES	1134
SET	NUD	LUD
	YES	0000s
SET	DATE	05/14/08
	TIME	17:02:19
SET	SET DEFAULTS	
	Press UP/DOWN	

Use these keys to change selections.



Network Update (NUD) is the time interval over which vTagNet information is updated and shared with other devices. Once tag numbers have been assigned, set the NUD to "Yes" to activate vTagNet system updates. The default NUD setting is 5 seconds.

System Status

System status displays show power, network, panel temperature and clock status. The power display shows solar voltage, battery charge level and current drain. Network status shows network component type and link status.

D1: Press <> for SYSTEM Status		
◀▶	SOL	BAT ImA
	1.43	3.86 11
DATA	DEV	LINK
	ED	YES
DATA	TMP	MAX MIN
	73	108 -5
DATA	DATE	04/11/08
	TIME	13:29:57

Temperature display shows current panel temperature and the historical high and low temperatures since the last time the unit was power cycled. The date/time clock shows current date and 24-hour time.

Module Information

Module information displays show device identification and sales data for warranty service. Module information displays are "system displays" and can not be modified or altered using the ChartWriter™ utility. This display information is programmed into each unit by the manufacturer, at the time of shipment or sale.

D2: Press <> for MODULE Info	
◀▶	MRG_01 AM9100
	018.111 # 02156
DATA	OKC RevA 02/08
	V1.6 03/28/08
DATA	OKC Products
	(970) 532-1773

Other user guides are supplied with each unit that focus on Control Panel operation, Power Module use and features and Wireless Networking, respectively. Visit and register on the OKC eSupport site for more detailed information. <http://support.okcproducts.com/>

Important Device Information

Each application module has important device related information saved in its non-volatile memory that can be accessed through the LCD display interface. Manufacturing and sales information is included in a single display as shown below.

Hardware Revision	
Manufacturer	OKC RevA 02/08
	V1.6 03/15/08
OpSys™ Version	Original Sale Date

Device information is also included in a single display as shown below. A "business card" sized information card is provided with each unit so that the device information may be noted for future reference.

Program Id.	Module Id.
MGR_01	AM9100
018.111	# 03125
Group Id. No. (GID)	Serial Number
	Function Id. No. (FID)

Accessories

Part Number	Accessory Description
9203-2002110	Pipe Mounting Kit 2-1/4 U-Bolt with extra 5/16" nuts . Uses universal mounting plate.
2503-3231HEY	Watertight Bushing. ½ NPT, Black Nylon. Uses 2503-8463HEY nut.
9203-2032150	Power Jack Assembly. 2.5mm Receptacle. Complete wired assembly.
4160-2032120	Universal Mounting Bracket. Black Zinc Plated #16 GA Steel. 2" Pipe or motor valve mount.
1980-2032400	Wireless XBee Kit. Maxstream 2.4 GHz Module. 300 ft. (100m) Line of Sight range.
1980-2401500	XBee-Pro PKG-U USB. Maxstream 2.4 GHz USB Adapter. 1 mi.(1500m) Line of Sight range.
9200-0501200	Ext. 6 W Solar Panel w/ stand. 5.0 Vdc @ 1200 mA charging. 6 ft. Power Jack cable provided.