

AEROMATE™ WSC

Valve Controllers

9203-2031050 & 9203-2031051



FEATURES

- ▶ **One or Two Solenoid Valves**
pneumatic dual-port valves
- ▶ **Individual Valve Control**
separate timers and controls
- ▶ **Versatile Cycle Control**
day-of-week and time-of-day
- ▶ **Two Switch Inputs**
Dry contact or 0-30Vdc logic
- ▶ **Two Switch Outputs**
low side, 20 V @ 2 A drive
- ▶ **Network Ready**
Bluetooth 802.15.4 wireless
- ▶ **Data Logging**
selectable sample rate
- ▶ **Modbus RTU Slave**
R/W coils and data registers

PC SOFTWARE

- ▶ **IDM™ Interactive Utility**
monitor, logger, tester
- ▶ **ChartWriter™**
graphical program generator

APPLICATIONS

- ▶ **Pneumatic Control**
- ▶ **Intermitter / Timer**
- ▶ **Plunger / Gas Lift**
- ▶ **Chemical Injection**
- ▶ **Pipeline Maintenance**
- ▶ **Compressor Control**
- ▶ **Distributed Controls**



Compact — AeroMate™ single or dual valve electronic controller provides an easy to use, low maintenance solution for low pressure, pneumatic control. Whether the need is for a standalone controller or a component in a wireless, distributed control network, OKC's AeroMate™ single or dual valve controller is the right choice at the right price.

Rugged and durable, AeroMate's molded enclosure protects against harsh weather, corrosive gases, salt spray and physical demands of industrial environments. Watertight bushing or 1/2" conduit and removable terminal blocks provide simple and easy hook up. Conformal coated electronics and gold plated contacts round out the AeroMate WSC's suite of environmental protection features.

Features include one or two pneumatic solenoid valves that are operated independently or in synchronization. Cycle timing is in hrs:min:sec or day-of-week and time-of-day for standalone valve control. vTagNet™ technology allows configuration of valve event and action tags for flexible internal control and collaboration with other wireless sensors and controls. Data monitoring and event logging provide all the ingredients for integration into remote access and control systems.

Onboard intelligence is the difference between getting what you want and having to accept what you get. AeroMate's Integrated Device Manager graphical program editor and compiler make getting what you want as simple as drawing a flow diagram. Combine easy, graphical programming with the flexible vTagNet™ technology and any sensing and control configuration is only limited by the imagination.



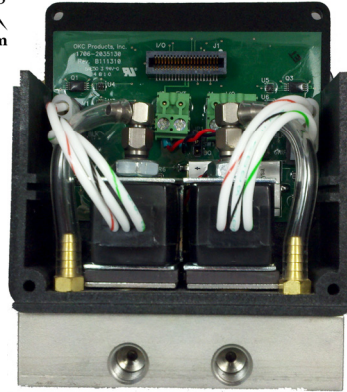
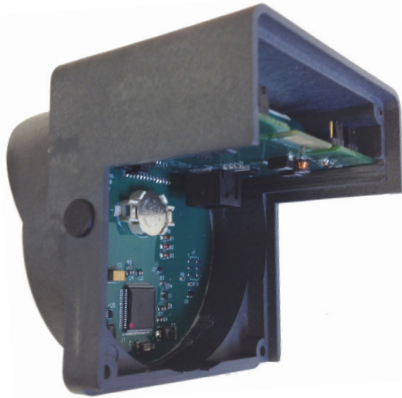
vTAGNET™ TECHNOLOGY Open wire tag connectivity and Modbus RTU support.

Onboard serial RS-232/485 communication port and Modbus compatibility provides easy integration with new or existing SCADA systems.

Flexible power system uses rechargeable, NiMh batteries or auxiliary power source. An external power jack allows easy hook-up to power sources and solar panels for battery charging. Auxiliary power sources may be used with or without rechargeable batteries installed.

Reliable, long term performance is a major benefit gained from the evolution and refinement of AeroMate's advanced design. Patented SunSmart® power management technology ensures reliable, long term performance. All connections are protected from static electric shock. A time tested user interface, low power operation and rugged packaging provide a high level of field reliability.

AERO MATE™ WSC



P/N 9203-2031050 AeroMate front cover assembly and dual-valve module shown disassembled. Front cover assembly, shown with wireless kit, is easily removed for routine valve maintenance.
P/N 9203-2031051 AeroMate single-valve module

Valve Controller Specifications

Manufactured under U.S. Patents 6,194,793 B1 and 6,462,507 B2

Enclosure

Weight	2.1 lbs (0.9 kg) Shipping 4 lbs (1.8 kg)
Dimensions	3.7 W x 5.0 H x 4.2 D (inches) (9 cm x 13 cm x 11 cm)
Type	Gasket Sealed NEMA 4X
Material	Thermoplastic Polyurethane

Power

	(without wireless module)
Standard	Two (2) 4/3-AA Batteries 4000 mAh Nimh Cells
Drain	50 mW Average
External	Jumper Set Input Ranges Low (<6V) or High (>6V) Using 2.5 mm Power Jack

Charging

Solar	Shatterproof Solar Panel 6 Watt Panel - Standard 2 Watt Panel - Optional
Other	Using 2.5 mm Power Jack: 4.5 - 20.0 Vdc with 1.2 W max. power dissipation

Display

Type	32-character LCD Display with Auto-Contrast Control
Window	Polycarbonate Coated

Temperature

Operating	-20°F to +150°F (-30°C to 65°C)
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Log Data Memory

Type	Non-Volatile FRAM
Log Size	32k-Byte Memory

Pneumatic Control

Number	Two (2) Independent Pneumatic Valves
Type	Latching Solenoid with Stainless Steel Armature
Manifold	1/8-NPT Female Ports 316 Stainless Steel
Pressure	100 ± 10 psi Max.

I/O Connections

Inputs	Switch Input 0-30 Vdc 15kV static protection
Outputs	2x NPN Low Side Switch Max. +20 Vdc @ 2 A

Wireless

Type	Bluetooth 802.15.4
SNAP	Up to 1000 ft (300 m) LOS
XBee-Pro	Up to 3000 ft (1 km) LOS

Certifications

CSA	Non-Incendive, Intrinsically Safe for Use in Class 1, Division 1 and 2, Group C and Group D Hazardous Locations
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DISPLAY ITEMS

DATA Key

- Status Page
 - Battery and EVS status.
 - Valve V1 status.
 - Valve V2 status.
- Totals Page
 - V1 close and open totals.
 - V2 close and open totals.
- Operation Page
 - Battery and charge status.
 - Temperature history.
 - Wireless network status.
- Device Page
 - Device identification.
 - Manufacturing information.
 - Service call information.

SET Key

- Operation
 - Manual valve override.
 - Clear stored data.
- Timers
 - V1 timer setup.
 - V2 timer setup.
- System Setup
 - Date/Time clock setup.
 - Day of week setup.
 - Wireless network setup.
 - Log update setup.

CONTROL KEYS

PWR Power On/Off switch.
Loads application program.

DATA Selects status, operation
and device displays.

SET Selects items and variables
that are user settable.

SET KEYS

▶▶ Move cursor right.
Selects menu item.

▲ Increment cursor selection.
Move to next item.

▼ Decrement cursor selection.
Move to previous item.

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