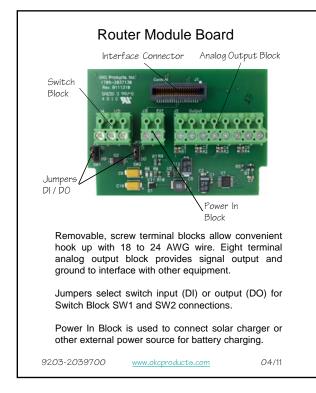
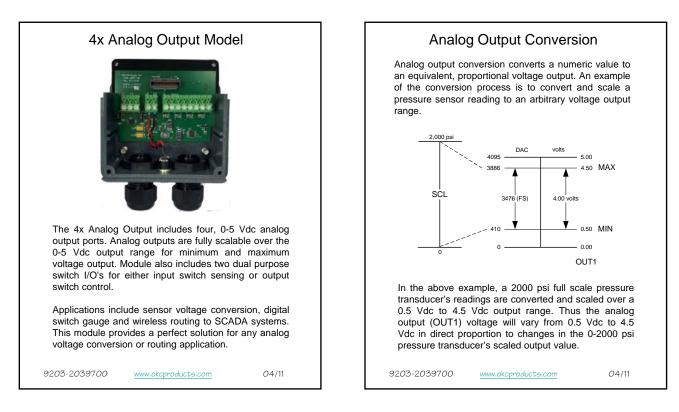


	Introduction	
Multi-Function Hardware	The AeroMate Analog Output Rou a multi-function module that includ two digital switch I/O's and four an voltage outputs.	les
Customizable Measurement and Processing	Using the Integrated Device Mana (IDM) and web based version con system, the Analog Output module fully customizable to meet any sim complex application.	trol e is
Configurable Analog Outputs	Configurable analog outputs use s high resolution 5V, 12-Bit Digital-to Analog (DAC) converters. Calibrat includes zero offset voltage, maxi voltage range and display units so to interface with any industry stand SCADA system and available well controllers.	o- ion mum aling dard
Configurable Switch I/O	Two digital switch I/O's are jumper selectable for input or output funct Switch configuration allows for nor open (NO) or normally closed (NC states as well input Time Constant Pulse Width output control.	ions. mally)
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Hook Up Connections		
J4 1/0 DI 20 20 20 20 DO 5W1 5W2	J3 Ext J2 Output J3 Ext J2 Output J2 Contput J2 Output J2 Output J	
J2 OUTPUT	OUT1 – Voltage output number 1. GND - Common ground connection.	
J2 OUTPUT	OUT2 – Voltage output number 2. GND - Common ground connection.	
J2 OUTPUT	OUT3 – Voltage output number 3. GND - Common ground connection.	
J2 OUTPUT	OUT4 – Voltage output number 4. GND - Common ground connection.	
J3 EXT	PWR - Solar / External power GND - Common ground connection.	
J4 I/O	SW1 - Switch input/output terminal. GND - Common ground connection. SW2 - Switch input/output terminal.	
SW1 / SW2	DI – J4 Switch input. DO – J4 Switch output.	
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What's Being Converted?

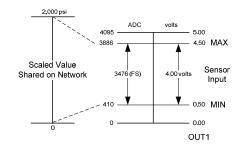
We have been discussing how the 4x Analog Output Router can scale and output sensor data to accommodate the input requirements of other standard control and data acquisition systems. But where does the sensor data come from?

As a component in a local wireless network, the 4x Analog Output Router receives sensor data from other wireless sensors and controls connected to it. Other wireless units that share data with the 4x Analog Output Router include PumpMate 2010 controllers and/or AeroMate sensors and controls, such as Valve, Sensor and Counter application modules. A list of the wireless vTagNet based products that are compatible with the 4x Analog Output Router include:

Module Number	Description	GID.FID
9208-2081000	PumpMate 2010	018.060
9203-2035100	2x Solenoid Valve	018.066
9203-2035200	1x Solenoid Valve	018.067
9203-2036100	2x Transducer	018.055
9203-2036200	1x Transducer	018.082
9203-2036300	1x Flow	018.083
9203-2036400	2x Analog Input	018.084
9203-2038300	3x Digital Counter	034.099
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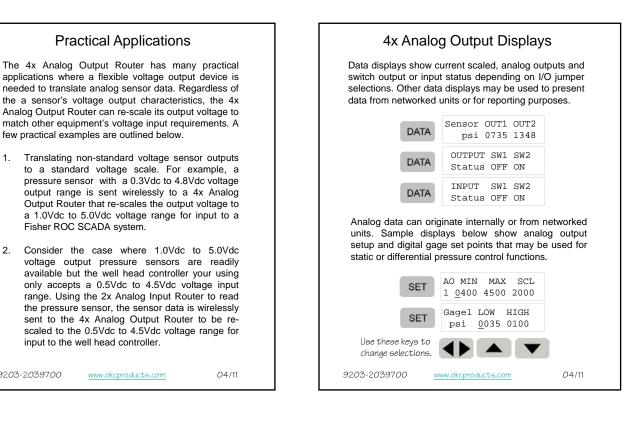
Wireless Data Transfer

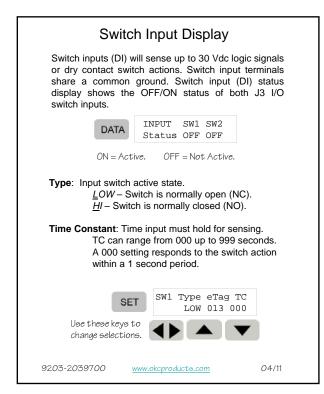
Through a wireless network connection, AeroMate sensors and controls measure the voltage from flow, pressure, temperature and other types of sensors. This voltage may be converted to a "Scaled Value" in units of InW, psi and degrees Fahrenheit and shared with the 4x AnalogOutput Router.



In the above example, a 2000 psi full scale pressure transducer's 0.5 Vdc to 4.5 Vdc output is converted to a digital number using an Analog-to-Digital Converter or ADC. The digital number is then converted to the equivalent pressure in units of psi and is shared over the wireless network as a "Scaled Value".

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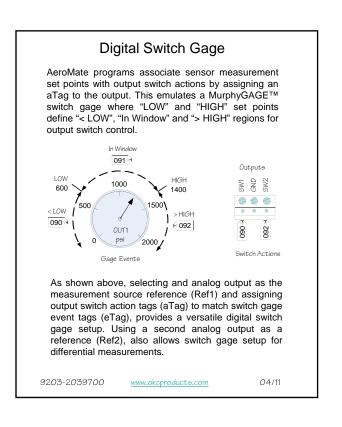




1.

2.

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Switch Output Displays	System Displays
Switch outputs (DO) are robust power switches capable of switching loads up to 20 Vdc at 2 Amperes and act as standard MurphyGAGE [™] outputs. Switch outputs have a common ground and should be used to "ground" the load connected to the switch terminal.	System displays show the current operating status of the device. A power display shows battery (BAT), wireless network module (V33) and sensors (SNS) voltage status.
SET SW2 Type aTag PW	Press <> for SYSTEM Info
Low 013 000 Use these keys to change selections.	BAT V33 SNS 2.76 3.33 10.5
TYPE: Output switch active state.	DATA DATE 05/15/11 TIME 17:02:19
<u>LOW</u> – Switch is normally open (NC). <u>HI</u> – Switch is normally closed (NO).	DATA TMP MAX MIN 48 118 -21
Pulse Width : Time the output will stay active. PW can be from 000 up to 999 seconds. A	DATA DEV RSSI LINK ED -065 YES
000 setting maintains the active state only as long as switch stays active.	Use these keys to change selections.
DATAOUTPUT SW1 SW2 Status OFF OFFON = Active.OFF = Not Active.	The Date/Time display shows the current real-Time clock settings. The control panels temperature history and wireless link status round out the suite of system LCD displays.
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Impor	tant Device Infor	mation
related inform that can be interface. Ma	tion module has impo ation saved in its non-vo accessed through the nufacturing and sales i single display as shown b	latile memory LCD display nformation is
	Hardware Revision	
Manufacturer	OKC RevB 05/11 V1.0 06/03/11	Build Date
OpS	ys Version Original Sa	le Date
display as sh program nam	ation is also included own below. This include e or identification, unit code and serial number.	es the unit's
	Program Id. Mod	ule Id.
	SR_2X4 AM7100	ule Id.
	SR_2X4 AM7100 018.097 # 02185	
Group la	SR_2X4 AM7100	

Accessories		
Part Number 9203-2002110	Accessory Description Pipe Mounting Kit 2-1/4 U-Bolt with extra 5/16" n Uses universal mounting plate	
6016-PJ22206	Power Jack Cable – 6 foot 2 Conductor, #22 AWG Wire Molded 2.5mm Plug.	
2503-1370315	Watertight Bushing. 1/8 NPT, Black Nylon. Direct thread into enclosure.	
1980-2032400	Wireless XBee Kit. Maxstream 2.4 GHz Module. 300 ft. (100m) Line of Sight ra	inge.
1980-2032401	Wireless XBee-Pro Kit. Maxstream 2.4 GHz Module. 3000 ft. (1km) Line of Sight ra	inge.
9200-0490560	Ext. 2 W Solar Panel w/ stand 4.1 Vdc @ 520 mA charging. 6 ft. Power Jack cable provide	
9200-0501200	Ext. 6 W Solar Panel w/ stand 5 Vdc @ 1200 mA charging. 6 ft. Power Jack cable provide	
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