

Hook Up Connections				
J1 XDR 1 J2 XDR J1 XDR 1 J2 XDR J2 ZDR J2 ZDR ZDR ZDR ZDR ZDR ZDR ZDR ZDR ZDR ZDR	22 J6 Ext J3 1/0 J3 1/0 J2 J6 Ext J3 1/0 J2 J6 Ext J3 1/0 J2 J6 Ext J3 1/0 J2 J7			
J1 XDR 1 SIG - DP Flow sensor input. GND - Common ground connection. PWR - Sensor power (+10 Vdc*).				
J2 XDR 2	SIG - Sales Line sensor input. GND - Common ground connection. PWR - Sensor power (+10 Vdc*).			
J6 EXT	PWR - Solar / External power GND - Common ground connection.			
J3 I/O	SW1 - Output switch 1 terminal. GND - Common ground connection. SW2 - Output switch 2 terminal.			
JP1 / JP2	DO – Select J3 as switch outputs.			
* Sensor power may range from +9.5 Vdc to +12 Vdc.				
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Meter Displays

A typical application for the 1x Flow sensor is for gas flow measurement. This configuration uses a DP transmitter (inW) and a static pressure transducer (psi) to compute gas flow rate (MCF/HR). Using this data, other information may be computed such as total accumulated MCF gas volume.

DATA	PVFHJQ FFIJKGI
DATA	T F I RE V T V FHJ cb

Measured variables, such as InW and psi, may also be used for internal or networked control parameters and alarms. Sample displays below show digital gage set points and entry of the calibration factor (Fb) used to adjust for AGA-3 1992 flow rate calculations.





Digital Switch Gage

AeroMate programs associate sensor measurement set points with output switch actions by assigning an aTag to the output. This emulates a MurphyGAGE[™] switch gage where "LOW" and "HIGH" set points define "< LOW", "In Window" and "> HIGH" regions for output switch control.



As shown above, selecting transducer XDR1-SIG as the measurement source and assigning output switch action tags (aTag) to match switch gage event tags (eTag), provides a versatile digital switch gage setup. In this example, the DP Flow Transmitter is used for the gage readings to give a stable, precise digital switch gage for flow control applications.

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Switch Output 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.				
SET VGW: W@ VW <u>Q</u> RPQFKIFFF				
Use these keys to change selections.				
TYPE : Output switch active state. $\underline{L}OW$ – Switch is normally open (NO). $\underline{H}I$ – Switch is normally closed (NC).				
Pulse Width: Time the output will stay active. PW can be from 000 up to 999 seconds. A 000 setting maintains the active state only as long as switch stays active.				
DATA V RW Q V G V H				
ON = Active. OFF = Not Active.				
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	Accessories	
Part Number 9203-2002110	Accessory Description Pipe Mounting Kit. 2-1/4 U-Bolt with extra 5/16" n Uses universal mounting plate	uts.
5510-1502500	Pressure Transducer w/ 6ft ca 2500 psig , 0.5-5V Non-Ration 316 SS w/ ¼-NPT Male Port.	ble. netric.
5520-5500138	DP Transmitter 0-5psid (138 lı 1000 psi Static Pressure Rate 316 SS w/ ¼-NPT Female Por	nW). d. ts.
1980-2032400	Wireless XBee Kit. Maxstream 2.4 GHz Module. 300 ft. (100m) Line of Sight ra	nge.
1980-2032401	Wireless XBee-Pro Kit. Maxstream 2.4 GHz Module. 3000 ft. (1km) Line of Sight ra	nge.
9200-0490560	Ext. 2 W Solar Panel w/ stand 4.1 Vdc @ 520 mA charging. 6 ft. Power Jack cable provide	d.
9200-0501200	Ext. 6 W Solar Panel w/ stand 5 Vdc @ 1200 mA charging. 6 ft. Power Jack cable provide	d.
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