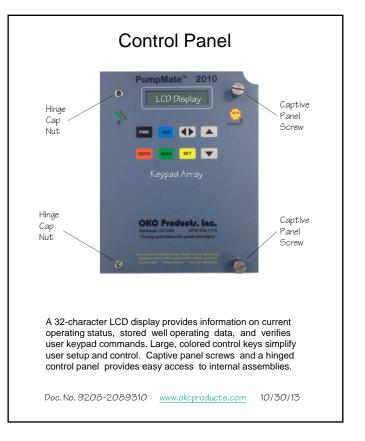
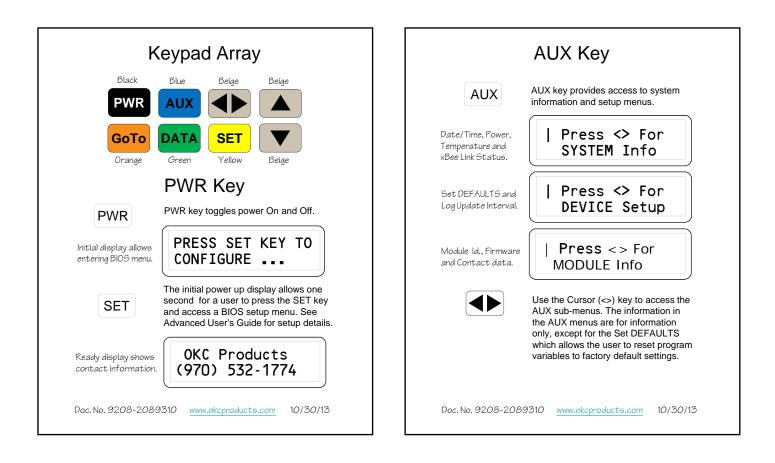
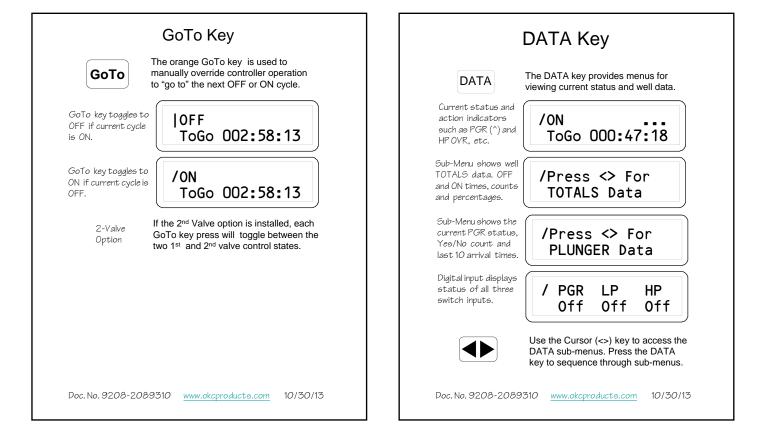
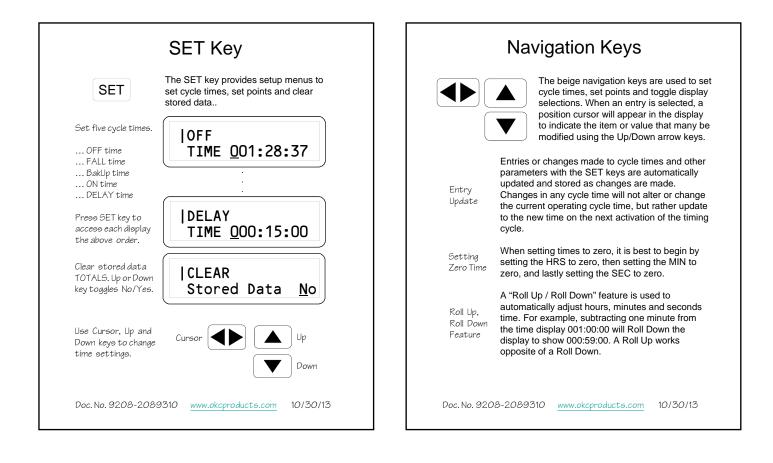
| OPERATOR'S GUIDE  | Introduction   |
|---|--|
| PumpMate" 2010  | Multi-Function<br>Hardware The PumpMate 2010 is a multi-function<br>controller that includes a full suite of<br>sensor inputs, including 3x digital inputs<br>(DI's), 4x analog inputs (AI's) and single<br>or dual solenoid valve support.  |
|   | Customizable<br>Program s and<br>LCD DisplaysWith OKC Products, Inc.'s Integrated<br>Device Manager (IDM) and web based<br>version control system, the PumpMate<br>2010 is fully customizable to meet any<br>simple or complex application.  |
|   | Configurable<br>Analog Inputs<br>Analog Inputs<br>Ana |
| SunSmart® with vTagNet <sup>™</sup> Technology  | ConfigurableDigital inputs configuration allows for<br>normally open (NO) or normally closed<br>(NC) switch sensors with TC filtering.   |
| Non-Incendive, Intrinsically Safe for Use in<br>Class 1 Division 1 and Class 1 Division 2           | Advanced extension technology  |
| Group C and Group D Hazardous Locations   | Advanced Advanced solar charging technology<br>Solar Charging provides rapid charging of the 5 A-Hr<br>Nimh battery pack in both sunny and<br>cloudy weather conditions.   |
| U.S. Patent No.'s 6,194,793 and 6,462,507<br>Copyright© 2013 OKC Products, Inc. All Rights Reserved | Doc. No. 9208-2089310 <u>www.okcproducts.com</u> 10/30/13  |

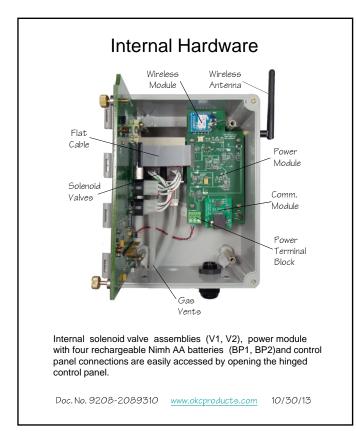
| Advanced Features   |   |  |
|---|---|--|
| Digital Gauge<br>Low, Window &<br>High Set Points         | PumpMate 2010 script programming<br>provides digital switch gauge functions<br>for Low, Window and High set point<br>detection. Digital gauge combinations<br>include flow, pressure and differential<br>measurements, to name just a few.      |  |
| SCADA Modbus<br>Compatibility                             | Modbus is the standard communication<br>protocol in the PumpMate 2010 and<br>provides a seamless interface and full<br>compatibility with industry SCADA data<br>acquisition systems and on-line, web<br>based monitoring and control services. |  |
| Wireless Sensor<br>and Control<br>Connectivity            | Local wireless networking extends the<br>reach of the PumpMate 2010 to sensors<br>and controls up to 1000ft. from the base<br>unit using OKC's AeroMate WSC line of<br>wireless sensors and controls.   |  |
| AGA-3 1992<br>Gas Flow<br>Measurement                     | PumpMate 2010 scrip program includes<br>a gas flow measurement function that<br>conforms to the AGA-3 1992 standards<br>to provide stable, accurate gas flow rate<br>and volume calculations  |  |
| Doc. No. 9208-2089310 <u>www.okcproducts.com</u> 10/30/13 |   |  |

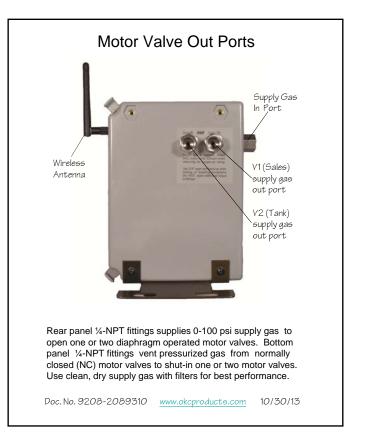


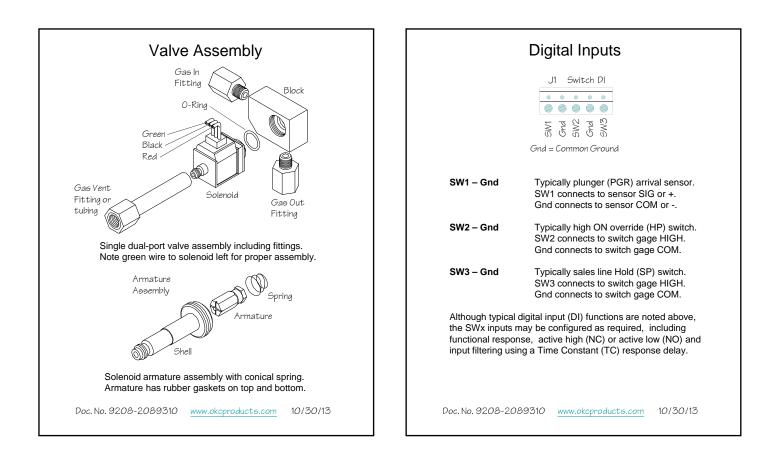












| Analog Inputs   |   |  |
|---|---|--|
| JG PWR  | J3 Sensor Al  |  |
| +12V  | Analog sensor power (+12Vdc)<br>+12V connects to sensor +V or +EXC.   |  |
| AN1 – Gnd   | Typically TBG pressure transducer.<br>AN1 connects to sensor SIG or OUT.<br>Gnd connects to sensor COM or -EXC. |  |
| AN2 – Gnd   | Typically CSG pressure transducer.<br>AN2 connects to sensor SIG or OUT.<br>Gnd connects to sensor COM or -EXC. |  |
| AN3 – Gnd   | Typically SLS pressure transducer.<br>AN3 connects to sensor SIG or OUT.<br>Gnd connects to sensor COM or -EXC. |  |
| AN4 – Gnd   | Typically FLO Rate Transmitter.<br>AN4 connects to sensor SIG or OUT.<br>Gnd connects to sensor COM or -EXC.    |  |
| Input zero offset, full scale and range are settable for any voltage type sensor output in the range of 0 Vdc to +5Vdc. |   |  |
| Doc. No. 9208-2089  | 310 www.okcproducts.com 10/30/13  |  |

| Accessories  |   |  |
|--|---|--|
| Part Number  | Accessory Description   |  |
| 4008-0122500                                       | Nimh AA Battery (2500 mAh Capacity).<br>Uses 3 each in AA battery holder.<br>Recommend charging before use. |  |
| 4015-1250300                                       | 4x AA Auto Lighter Charger.<br>1-hour Nimh battery charging.<br>Plugs into auto lighter socket.             |  |
| 4022-1206300                                       | Utility Wall Socket Charger<br>+6Vdc @ 300mA charge rate<br>PumpMate Power Jack compatible                  |  |
| 9200-0501770                                       | Ext. 8 Watt Solar Panel w/ stand.<br>5 Vdc @ 1700 mA charging<br>SolarMade SP8-10B                          |  |
| 1980-2664500                                       | Wireless Network Kit (802.15.4)<br>Synapse 2.4 GHz RF Module<br>1000 ft. (300 m) Line of Sight range        |  |
| 9208-2083000                                       | PM2010 control panel assembly.<br>Includes captive screws and retainers.                                    |  |
| 9208-2084100                                       | PM2010 power module assembly.<br>Includes four AA, 2500 mAh batteries.                                      |  |
| Doc. No. 9208-2089310 www.okeproducts.com 10/30/13 |   |  |