



# PumpMate™XT

## Multi-Function Controller



### FEATURES

- ▶ **Solenoid Control Valve**  
*pneumatic dual-port valves*
- ▶ **Four Switch Inputs**  
*dry contact or 0-30Vdc logic*
- ▶ **Versatile Switch Controls**  
*high, low and timing hold*
- ▶ **Three Analog Inputs**  
*12-Bit, 0-5 Vdc compatible*
- ▶ **Analog & Digital Gages**  
*high, low and differential*
- ▶ **2GB MicroSD Data Logging**  
*settable sample rate*
- ▶ **RS-232/485 Serial Port**  
*Modbus RTU access*
- ▶ **Local Wi-Fi Access**  
*any smart phone or tablet*

### Set & Go Options

- ▶ **Basic Options**  
*timing cycles and switches*
- ▶ **Advanced Options**  
*analog and digital controls*

### APPLICATIONS

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



PumpMate™XT's single or dual valve, multi-function controller provides an easy to use, low maintenance solution for pneumatic control. Whether the need is for a controller with basic or advanced options, the PumpMate™XT controller is the right choice at the right price.

Rugged and durable, PumpMate™XT's high impact, NEMA 4X UV resistant enclosure protects against harsh weather, corrosion, salt spray and the physical demands of industrial environments. Two (2) 1/2"-NPT water tight bushings provide simple and easy sensor hook up. Conformal coated electronics and gold plated contacts round out the PumpMate™XT's suite of environmental protection features.

Features include a "all stainless" latching, pneumatic solenoid valve, hrs:min:sec cycle timing, an extended 30 to 45 day battery life, and both digital switch and analog voltage sensor control. Front panel LED indicators acknowledge a Touch-Sense™ keypad touch, sensor activity and power "On" status through a UV resistant, clear cover lid. The removable, 2GB MicroSD card provides a large memory capacity for logging in standard Excel "\*.csv" compatible format.

"Set & Go" options are the difference between getting what you want and having to accept what you get. Two built-in, optional feature sets that allow users to enable or disable operational features as needed. *Basic Options* configure the available timing cycles and digital switch functions.

*Advanced Options* configure the three analog sensor inputs and their associated high/low or



**Integral, Built-In 0.4 W Solar Charger  
Universal Motor Valve or 2" Pipe Mount  
Clear, Lockable Cover Lid  
Part Number: 9306-3061000**

differential set point control.

Advanced power system uses a Li-Ion battery to maintain stable voltage during both hot and cold weather conditions. The Li-Ion battery includes integral, built-in maximum discharge current limiting as well as full charge voltage and low voltage shut-down control. An external 2.5mm power jack allows easy connection to external power sources for "off site" battery charging.

Reliable, long term performance results from the evolution and refinement of PumpMate™XT's advanced design. All connections are protected from static electric shock. A simple, time tested user interface, very low power operation and rugged packaging provide a high level of field reliability.

# PumpMate™ XT



P/N 9306-3061000 **PumpMate™ XT front and left-hand side views shown.**  
**Front cover lid is clear and includes lockable hold-down clasp.**  
**NEMA 4x rated, UV resistant polycarbonate enclosure.**

## Multi-Function Controller Specifications

### Enclosure

|            |   |
|------------|---|
| Weight     | 4.5 lbs (2 kg)<br>Shipping 5 lbs (2.3 kg)           |
| Dimensions | 6"W x 6"H x 4"D (inches)<br>(15 cm x 15 cm x 10 cm) |
| Type       | Gasket Sealed NEMA 4X                               |
| Material   | UV Resistant Polycarbonate                          |

### Power

|          |  |
|----------|--|
| Standard | One (1) Prismatic Battery<br>Li-Ion, 3.7 Vdc @ 3000 mAh                              |
| Drain    | 15 mW Avg. (30 day reserve)  |
| External | Optional 2W Solar Panel<br>Utility Wall Socket Charger<br>( 2.5 mm Power Jack Input) |

### Charging

|       |   |
|-------|---|
| Solar | Shatterproof Solar Panel<br>0.4 Watt Panel - Standard |
| Other | Using 2.5 mm Power Jack:<br>2 Watt Panel - Optional   |

### Display

|        |  |
|--------|--|
| Type   | 32-character LCD Display<br>with User Contrast Control |
| Window | None   |

### Serial Port

|           |  |
|-----------|--|
| Type      | 3-Wire, RS-232/485<br>Serial Port or Wireless Module |
| Protocol  | Modbus RTU   |
| Baud Rate | 9600, 15200, 38400                                   |

### Temperature

|           |                                    |
|-----------|------------------------------------|
| Operating | -20°F to +150°F<br>(-30°C to 65°C) |
|-----------|------------------------------------|

### Logging Data Memory

|        |                       |
|--------|-----------------------|
| Type   | MicroSD Card          |
| Memory | 2 gigabytes           |
| Format | Windows Excel (*.csv) |

### Pneumatic Control

|          |  |
|----------|--|
| Number   | Single or Dual Valve                               |
| Type     | Latching Solenoid with<br>Stainless Steel Armature |
| Manifold | 1/4-NPT Female Ports<br>316 Stainless Steel        |
| Pressure | 100 ±10 psi Max.                                   |

### I/O Connections

|             |   |
|-------------|---|
| Digital (4) | Switch Input 0-30 Vdc<br>15kV static protection |
| Analog (3)  | Voltage Type Transducers<br>12-Bit ADC, 0-5 Vdc |

### Wireless

|      |  |
|------|--|
| Type | Bluetooth Low Energy (BLE)<br>Up to 100 ft. (30 m) LOS |
|------|--|

### Certification

CSA: Non-Incendive, Intrinsically Safe for Use in  
 Division 1 and Division 2, Group C and Group D,  
 hazardous locations.

## DISPLAY ITEMS

### GOTO Key

Manual valve override.  
 Go To OFF or ON cycle.

### DATA Key

Status Display  
 Remaining cycle timeout.  
 Valve and battery status.

Totals Display  
 Valve OFF time total and count.  
 Valve ON time total and count.

Plunger Display  
 Current arrival time and count  
 Use (<>) key to view:  
 Last 10 arrival history.

### TIME Key

Cycle Timers (hhh:mm:ss)  
 OFF (Close) time set.  
 FALL time set.  
 BakUp time set.  
 On (Open) time set.  
 DELAY (Afterflow) time set.

### Other Items

Clear All Data (Y/N).  
 When viewing "Clear All Data",  
 Use (<>) key to view:  
 Basic Options menu.  
 Advanced Options menu.

## CONTROL KEYS

**PWR** Power On/Off button.  
 On back of control panel.

**DATA** Selects status, totals  
 and plunger 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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 Berthoud, Colorado USA

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info@siteresourcesltd.com

Toll Free: 1-855-948-9050

www.siteresourcesltd.com



**Site Resources Ltd.**

#108 11360 - 255 Street,  
 Acheson, Alberta  
 T7X 6C9