

# TIME MATE™

## Well Head Controller

9207-2071000



### FEATURES

- ▶ **Easy to Use Control Panel**  
*simplifies setup & operation*
- ▶ **Sealed Control Panel**  
*for ultimate protection*
- ▶ **Lifetime Sealed Battery**  
*never needs changing*
- ▶ **Built-In Solar Charger**  
*self-starting and maintaining*
- ▶ **Rugged, Durable Enclosure**  
*shatterproof solar panel*
- ▶ **Virtually Maintenance Free**  
*long term performance*
- ▶ **Three Operating Modes**  
*just a key press away*
- ▶ **Compact, Modular Design**  
*fits anywhere*
- ▶ **Affordable Price**  
*fits any budget*

### APPLICATIONS

- ▶ **Stripper Well Timer**
- ▶ **Pressure Switch Control**
- ▶ **Plunger Lift Controller**
- ▶ **Compressor Controller**
- ▶ **Tank Battery Control**
- ▶ **Pipeline Maintenance**



**Compact** — The TimeMate™ electronic timer provides an easy to use, low maintenance solution for well head, production equipment, or pipeline control. Whether the application is for a well head timer, high/low pressure switch or basic plunger lift control system, the TimeMate is the right choice at the right price.

**TufSeal™** is the ultimate protection against harsh weather, well head gases, salt spray and the physical demands of oil field applications. A proprietary manufacturing process applies a hard, toughened epoxy coating to environmentally seal all electronics and rechargeable battery pack with TimeMate's cover lid.

**SunSmart®** technology provides a self-starting, self-maintaining battery power system, eliminating user requirements to charge or periodically change batteries. From being stored in a dead battery state, TimeMate automatically senses the presence of sunlight, self-starts and begins charging its battery. With as little as four hours daylight charging TimeMate will continue to operate through the nighttime hours and into the next day. A ten day battery reserve provides continuous, uninterrupted operation in all weather conditions.

**User friendly** control panel simplifies operation. Press the TIME key to set cycle time. Use the ◀▶ key to select Hrs., Min. or Sec. Then simply adjust the time using the ▲ add key or ▼ subtract key. That's all there is to it —no enter key or complicated key sequences to remember. The GoTo key provides a manual override to toggle the solenoid valve ON or OFF. The DATA key provides informative well data such as total OFF and On time/count, a battery indicator, and current well status with remaining cycle time.

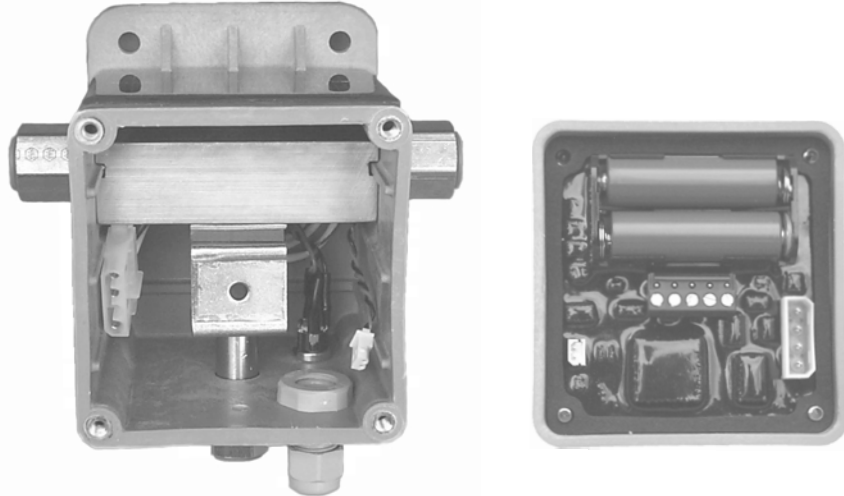


**Multi-Mode “Press and Go”**  
*Any one of the three most used controls is just a key press away!*

**Press and go** feature allows the user to select basic timer, switch control or plunger lift operation. Press the TIME key and use the set keys to choose from TIMER, SWITCH or PLUNGER operating modes. Any one of three controllers is just... *a key press away.*

**Reliable**, long term performance is a major benefit gained from the evolution and refinement of the TimeMate's advanced electronics. Battery control circuits manage battery charge and discharge cycles to extend the operating temperature range and battery life. Solenoid valve controls are short circuit protected and ensure reliable operation over the full range of battery operation. All connections to the TimeMate's control panel are protected from damaging static electric shock and lightning discharge.

# TIME MATE™



**P/N 9207-2071000** Open the front of a TimeMate™2000 controller and you'll see a neatly organized and weather sealed compartment. Made to take on nature and win!

## TimeMate™2000 Specifications

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

### Enclosure

Weight	3.0 lbs (1.4 kg)
Dimensions	3.5 W x 3.65 H x 3.5 D (inches) (8.9 cm x 9.3 cm x 8.9 cm)
Type	NEMA 4X Rated
Material	Reinforced Thermoplastic

### Power

Standard	2x AA Battery Holder Rechargeable NiMh Cells
Capacity	1600 mAh @ 2.4 Vdc
Drain	8 mW Average Power
External	With Batteries Removed: 4.5 - 24.0 Vdc @ 8 mW

### Charger

Internal	Shatterproof Solar Panel 7.0 Vdc @ 70 mA (0.5 W)
External	Power Jack Connection
Current	Regulated @ 92 mA Max.
Voltage	Regulated @ 5 Vdc Max.
Range	4.5 - 15.0 Vdc with 1.2 W Max. Power Dissipation
Commercial	Rayovac PS4 (4 AA Cell) 115 Vac Power Supply and Automobile Lighter Plug

### Temperature

Operating	-20°F to +150°F (-30°C to 65°C)
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### Display

Type	32-Character LCD Display Temperature Controlled Contrast with Automatic Timed Off Control
Window	Non-Glare, Double Hardened Optical Acrylic

### Pneumatic Control

Type	Latching Solenoid with Dual Port Manifold
Fittings	Female 1/4-18 NPT with Nickel Plating
Pressure	100 ± 10 psi Max.

### Hookup Terminals

Type	Removable Screw Block 7, Terminal 18 - 24 AWG
Connections	1 - pgr Plunger Switch 2 - gnd Common 3 - lp Off Switch 4 - gnd Common 5 - hp ON Switch 6 - gnd Common 7 - sync Ext. Sync Output

### Certifications

CSA	Non-Incendive — Intrinsically Safe for Use in Class I, Groups C and D Hazardous Locations
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### “Press and Go” Mode

#### Timer: Basic Timer

- OFF Time
- ON Time
- Arrival time log

#### Switch: Basic Timer Plus...

- OFF Switch Control
- ON Switch Control
- FALL Time

#### Plunger: Switch Plus...

- DELAY Time
- BakUp Time

#### Constant Cycle: Staggered...

- OFF Time
- ON Time
- DELAY Time

### CONTROL KEYS

**GoTo** Manual override toggles and initiates OFF and ON cycles.

**TIME** Sets operating mode and programs timing cycles.

**DATA** Multi-function well data key:  
Current Cycle Status  
Cycle, Remaining Timeout  
Power Monitor  
Battery, Vdc, Charge mA  
OFF Time Log  
Total Time, Count, Percent  
ON Time Log  
Total Time, Count, Percent  
Plunger Report  
Last Arrival Time  
Total Arrival Count  
Last Ten Arrivals

### SET KEYS

**◀▶** Left/right cursor key and mode select.

**▲** Up or add key. Clears displayed well data.

**▼** Down or subtract key. Clears displayed well data.

#### When Displayed:

00:00:00 Skips indicated control cycle.

Switch! Disables timeout for external switch only control.



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