TimeMate™ 2000

Well Head Production Control

Compact ...
electronic controller provides an easy to use, low maintenance solution for well head, production equipment or pipeline control. Whether your need is for a well head timer, high/low pressure switch or basic plunger lift control system, the TimeMate™ 2000 is the right choice at the right price.

TufSeal™ …
is the ultimate protection against bad 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 sensitive electronics from the well head environment.

Set and Go Options ...
allow custom configuration to meet specific well control requirements. Use the FramMate™ PC software to access and activate basic or advanced features as production requirements change without having to buy another controller. The FramMate™ software also allows personalizing the service information display for well identification or other important information.

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. 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 voltage and current well status with remaining cycle time. A removable, screw terminal block allows quick and easy hook-up to external sensors and controls.

Flexible Power ...
system uses rechargeable Nimh batteries as well as any external 3.6 Vdc to 24 Vdc power source. A convenient external power jack allows easy hook-up to external power sources and solar panels for added battery charging or for normal operation without the TimeMate 2000's rechargeable batteries installed.
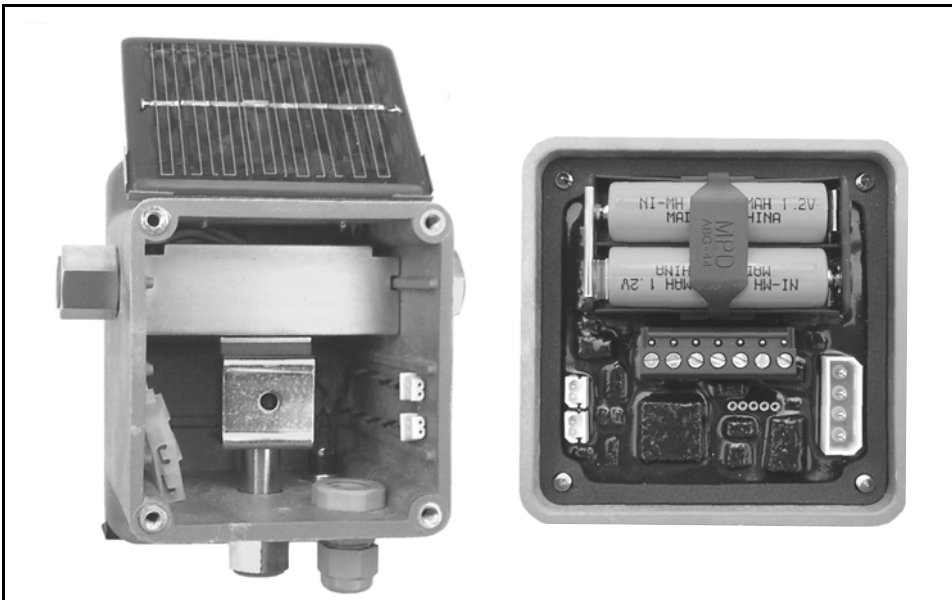
Multi-Function

"Set and Go"

Standard Features
meet basic and advanced
well control requirements.

Reliable ...
long term performance is a major benefit gained from the evolution and refinement of the TimeMate's advanced electronics. The patented Enhanced Valve Switching (EVS) and SunSmart technologies combine to ensure reliable, long term performance irrespective of battery charge condition and temperature. Solenoid valve controls and external sensor connections are protected from damaging static electric shock and lightning discharge. Low power operation, field proven software and rugged packaging provide a high level of field reliability.

New Product Available at:
Peterson Instruments Ltd

Open the front of a TimeMate™ 2000 controller and you'll see a neatly organized and weather sealed unit. Solar panel shown in the Winter charging position. Made to take on nature and win!

TimeMate™ 2000 *SPECIFICATIONS:*

Manufactured under U.S. Patents 4,150,721, 4,352,376, 6,194,793 and 6,462,507.

Enclosure:

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

Power:

Standard	2 x AA Cell Battery Holder Rechargeable Nimh Cells
Capacity	1600 mA-Hr @ 2.4 Vdc
Drain	8 mW Average Power
External	*With Batteries Removed*: 3.6 - 24.0 Vdc @ 8 mW

Charger:

Internal	Adjustable, Two Season Shatterproof Solar Panel 4.0 Vdc @ 400 mW
External	Power Jack Connection
Current	Regulated @ 82 mA max.
Voltage	Regulated @ 5 Vdc max.
Range	3.6 - 16.0 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)

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 w/ dual port manifold
Fittings	Female 1/4-18 NPT with nickel plating
Pressure	100 ± 10 psi maximum

Hook-Up 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 Class I Groups C and D Hazardous Locations

"Set and Go" Options

Off switch control
On switch control
Plunger arrival sense
Plunger drop time
Plunger afterflow time
Missed plunger Off time
Stalled plunger recovery
Min. Plunger Time Hold
Off hold flow control
On/Off synchronization
Digital Communications

Control Keys

GoTo   Manual override toggles and initiates OFF and ON cycles.

TIME   Sets programmed cycle times and other feature parameters.

DATA   Multi-function well data key:
Current Cycle Status
   Cycle, Remaining Timeout
OFF Time Log
   Total Time, Count, Percent
ON Time Log
   Total Time, Count, Percent
Plunger Report
   Last Arrival Time, Count

◀▶ DATA key Page
   Last Ten Plunger Arrivals

◀▶ DATA key Page
   Switch Status
   Power Status
   Sales Information
   Service Information

Set Keys

◀▶   Left/right cursor key and DATA key display page.

▲   Up or add key. Clears displayed well data.

▼   Down or subtract key. Clears displayed well data.

<u>When Displayed</u>:
00:00:00   Skips indicated control cycle.
Switch!   Disables timeout for external switch only control.

New Product Released at:

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