



Separator Purge Automatic Cycle Timer



**Record Your Model, Serial Number and
Other Information on the back of this document.**

Manufacturing: Bypass & Filter Feeders, Glycol Feed Packages, Separators & Separator Systems, Tanks, Tank Stands, Chemical Batch Mixers, Corrosion Coupon Racks, Packaged Feed Systems and Custom Systems

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O&M Manual INSTSEPTIMER Rev. 0220, Page 1 of 4

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***** WARNING – BEFORE YOU GET STARTED *****

- 1) All fasteners & fittings should be inspected and secured before operation as they may be loosened in transit
- 2) Personnel safety practices should always apply
- 3) Safety glasses or face shields and gloves should be worn
- 4) Close isolation valve and release pressure before servicing any components on the system
- 5) All liquids in system should be drained before servicing

1.0 INTRODUCTION Thank you for choosing General Treatment Products Separator Automatic Cycle Timer and Purge Valve. This automated package comes complete and ready to install. In this document we explain the basics for locating; installing, adjusting, operating and maintaining this purge system. For further information, please visit www.gtpcompany.com or contact customer service.

2.0 WARRANTY General Treatment Products Separator Automatic Cycle Timer and Purge Valve are guaranteed for two years from date of shipment against manufacturing defects in material and workmanship that develop in the service for which they are designed. We will repair or replace a defective part of this system when returned to our factory with freight prepaid; providing that the part is found to be defective upon inspection. We assume no liability for labor and/or other expenses in making repairs or adjustments.

3.0 UNPACKING Upon receipt of order, inspect package thoroughly. In the event there was damage incurred in transit you must notify the freight company within **3-5 days of receipt of order**. Once system is inspected for damage and received in good condition, and store indoors until installing.

3.1 ORDER VERIFICATION In order to verify receipt of correct product, use the following table and model number to identify the contents.

| Bromine Model Numbering | |
|--------------------------------|---|
| PKA | -200 |
| Purge Size | |
| -075 | ¾" Motorized Purge Valve and isolation valve |
| -150 | 1 ½" Motorized Purge Valve and isolation valve |
| -200 | 2" Motorized Purge Valve and isolation valve |
| -300 | 3" Motorized Purge Valve and isolation valve |
| Base Model | |
| PKA | 115VAC, Battery Backup, 7 Day Cycle timer with 7 events and NEMA 4X enclosure |

4.0 LOCATION AND ENVIRONMENT Although some of the components are NEMA rated the power cord(s) should not be exposed to direct elements. In outdoor cases a shelter, awning or shed needs to be installed to validate warranty.

5.0 INSTALLATION Once location is decided on, system need to be securely mounted to wall studs to firm level secure. **Be sure that mounting pads/wall studs and anchoring bolts comply with local building codes.** Purge controller comes standard with an 8FT power cord. Power supply with no less than 10 amps should be within 8FT of package. **Extension cords should not be used anytime.** Systems can be hardwired, if need. Have only an experienced electrician hard wire controller. Wiring diagrams are provided in section 9.0. Security access door, provided, will deter tampering and or improper setting changes.

5.1 CONNECTING TO SEPARATOR Purge valve should be installed at the bottom or drain connection of the separator. Be sure to use isolation valve supplied for servicing. Plumb outlet of purge valve to floor drain or collection/clarifying system.

5.2 WIRING VALVE TO TIMER Timer and valve are supplied with seal tight cord clamps and power cords. Valve and controller can be hard wired. See section 9.0 for wiring diagram.

5.3 SETTING THE CALENDAR/CLOCK AND ASTRO TIME The timer does not have to be plugged in to set the time.

- 1) Press DATE/TIME/NEXT. The year will flash. Use +/- to set year.
- 2) Press DATE/TIME/NEXT. The month will flash. Use +/- to set the month. 01 January to 12 December.
- 3) Press DATE/TIME/NEXT. The date will flash. Use +/- to set the date.
- 4) Press DATE/TIME/NEXT. The DST (Daylight Saving Time) will appear. Off is the standard, press + to turn Auto.
- 5) Press DATE/TIME/NEXT. The time will appear. Use the +/- to set the current hour.
- 6) Press DATE/TIME/NEXT. The minutes will appear. Use the +/- to set the current minutes.



The next few steps are to set the Astro region, when the sun will rise. Press the DATE/TIME/NEXT three times to get past the Astro region, sunup and sundown times.

5.4 SETTING THE EVENTS This section provides instructions for setting pairs of ON/OFF events. To set an event pair, you must first set the ON event and then repeat the procedure to set the OFF event. You can set up to seven pairs of ON/OFF events (14 total) in the timer. Follow this procedure to set timer events.

- 1) Press the SET ON/OFF EVENTS and the day of the week at top, will start flashing. Using the +/- select the day of the week you wish the first event to happen. (You can choose from one day a week, all days of week just the working days of the week or just the weekend)
 - 2) Press DATE/TIME/NEXT and the on time for the first event will display.
 - 3) Press DATE/TIME/NEXT and the time will appear.
 - 4) Press DATE/TIME/NEXT again and the hour will flash. Set using the +/-.
 - 5) Press DATE/TIME/NEXT again and the minutes will flash. Set using the +/-.
 - 6) Press SET ON/OFF EVENTS and the off time for the first event will display.
 - 7) Press DATE/TIME/NEXT and the time will appear.
 - 8) Press DATE/TIME/NEXT again and the hour will flash. Set using the +/-.
 - 9) Press DATE/TIME/NEXT again and the minutes will flash. Set using the +/-.
 - 10) Press SET ON/OFF EVENTS and the on time for the second event will display.
- ** Repeat steps to finish all events needed. Press SET ON/OFF EVENTS to skip unwanted events.

5.5 RESETTING THE TIMER In the event the timer malfunctions or is tampered with. The RESET can be pressed on the front panel with a paperclip. **NOTE: THIS WILL RESET ALL FUNCTIONS, EVEN TIME.**

5.6 REPLACING THE BATTERY BACKUP. The battery backup is only accessible from the back of the timer. **Please remove power before servicing.** Remove small access panel on back of timer and replace the AA battery. Battery life's vary, this should be checked twice a year.

6.0 PRESSURE AND TEMPERATURE LIMITATIONS

| MATERIAL | MAXIMUM SHORT-TERM TEMPERATURE | MAXIMUM OPERATING TEMPERATURE | MAXIMUM OPERATING PRESSURE |
|--------------------------------------|--------------------------------|-------------------------------|----------------------------|
| Polyethylene (PE) | 160°F/69°C | 85°F/36°C | N/A |
| Polyvinylchloride (PVC) | 140°F/60°C | 85°F/36°C | 100PSI/6.9BAR |
| Chlorinated Polyvinylchloride (CPVC) | 180°F/77°C | 120°F/49°C | 100PSI/6.9BAR |
| Polypropylene (PP) | 180°F/77°C | 120°F/49°C | 100PSI/6.9BAR |
| Teflon (PTFE) | 200°F/93°C | 200°F/93°C | N/A |
| Carbon Steel (CS) | 200°F/93°C | 200°F/93°C | 150PSI/10.3BAR |
| Cast Iron (CI) | 200°F/93°C | 200°F/93°C | 150PSI/10.3BAR |
| Brass (BR) | 200°F/93°C | 200°F/93°C | 150PSI/10.3BAR |
| Stainless Steel (SS) | 200°F/93°C | 200°F/93°C | 150PSI/10.3BAR |

Note: Minimum Fluid Temperature is 50°F/10°C.

7.0 ROUTINE MAINTENANCE Routine maintenance in this section is referred to as checking a system once a month until a maintenance schedule can be determined. **All fasteners should be checked for proper operations.** Maintenance and care will depend upon the usage and environment in which the purge controller and valve is subject to.

8.0 PARTS LISTING Consult factory for assistance.

9.0 WIRING Consult Factory for detailed wiring diagram.

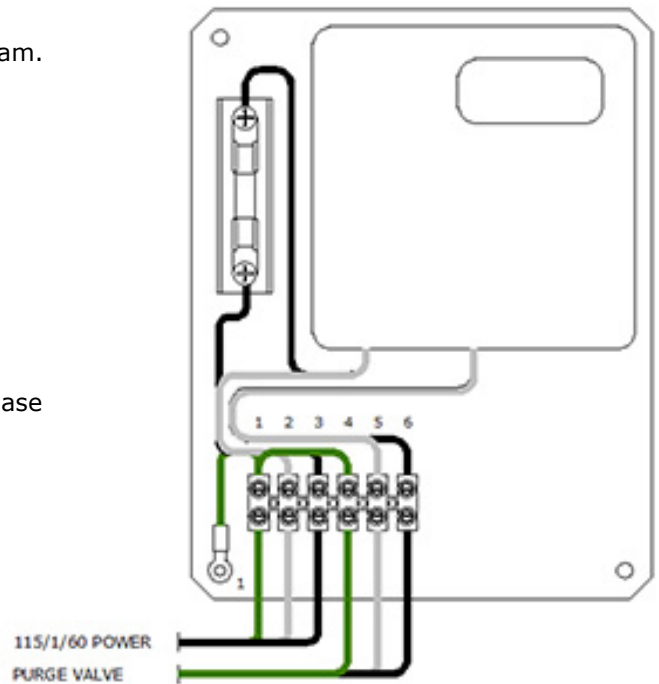
Hard wire to power 115VAC:

- Terminal 1 Ground
- Terminal 2 Neutral
- Terminal 3 Hot

Hard wire to valve 115VAC:

- Terminal 4 Ground
- Terminal 5 Neutral
- Terminal 6 Hot

Wiring diagram is based on standard GTP valve(s). Please Consult factory for non-standard valves.



10.0 TROUBLE SHOOTING If you are having trouble, please visit www.gtpcompany.com or contact customer service.

11.0 NOTES:

12.0 PRODUCT LABEL

Model:

Serial Number:
