

# Timed Dosing Unit TPA-350I and TPA-350E

## Installation Guide and Owner's Manual

This Owner's Manual provides useful information regarding the use and operation of your **Timed Dosing Unit TPA-350I and TPA-350E**, as well as the warranty provided by **Premier Tech Environnement (PTE)**. For more information, please call our Customer Service Department at **1 800 632-6356**.

### Product Description

The Series **TPA-350 Timed Dosing Unit (TPA-350I for indoor installations and TPA-350E for outdoor installations)** regulates pumping cycles making it possible to lessen peaks in the wastewater flow generated by all types of septic devices. This unit can be used upstream of an **Ecoflo® Biofilter** to ensure proper dosage of the system, or downstream of an **Ecoflo® Biofilter with collection bottom** to dose effluent treated in an absorption bed. The **TPA-350I/E** can also be used upstream or downstream of some other type of treatment system.

When the start/stop float of the Timed Dosing Unit **TPA-350I/E** rises, the pump starts and operates for an adjustable **ON** time. Then, it turns off for an adjustable **OFF** time. This start/stop cycle continues only if the start/stop float stays elevated. The **ON** and **OFF** times, whose values are pre-set at the plant at 1 to 30 minutes respectively, can be adjusted using the programmable controller. Generally, only the **ON** time needs to be re-adjusted according to onsite conditions.

When the override float rises, the pump operates non-stop until the float returns to its low position. Finally, when the high-level float rises, a sound and visual alarm is activated.

If your particular installation does not have two floats, the override float and the high-level float act as a double-float. In such a case, it is important to add a jumper between terminals 8 and 9.

### USAGE INSTRUCTIONS

- The **TPA-350I/E** must always be accessible, as must be the pumping station controlled by the Timed Dosing Unit. As such, burying the cover of the pumping station is forbidden.
- The **TPA-350I/E** must be placed outside the tank and above ground or inside the building.
- The **TPA-350I/E** is available in an indoor version (**TPA-350I**) and in an outdoor version (**TPA-350E**). The indoor version cannot, under any circumstances, be used outdoors.
- The **TPA-350I/E** can operate with any pump that has 120 VAC and a maximum of 15 amperes.



## ALARMS

The **Timed Dosing Unit TPA-350I/E** is equipped with both a sound and a visual alarm connected to the pumping station's high-level float. If the unit is installed outside the building, it must be positioned so that it is visible (according to the regulation in effect). If the unit is inside the building, it must be positioned so that the sound alarm can be heard as soon as it is activated. The information provided below will help you understand how these alarms work.

## HOW THE ALARM SYSTEM WORKS

The Silence/reset/test button lets you check if the alarm system is operational. During a test, the red indicator light should come on and the sound alarm should sound.

The red indicator light comes on when the water level is abnormally high or when the float is defective. In such cases, the installation must be checked to locate the source of the problem. When an alarm is activated, it can be turned off (silenced) by pressing the button. The two types of alarms can be differentiated by:

- A continuous sound, which indicates a high level.
- An alternating sound, which indicates a defective float.

NOTE: You can use the auxiliary contact at terminals #5 and #10 to install an additional alarm signalling device.

## OPERATOR INTERFACE

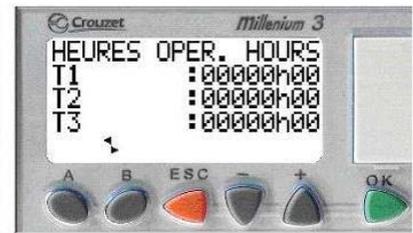
Page 1: Main screen

- Date (dd/mm/yy)
- Time



Page 2: Pump dosing

- T1: Pumping time
- T2: Pause time



Page 3: Time counter (hours)

- T1: Total pump operating time (including override operation time)
- T2: Override operation time
- T3: Time at high level



Page 4: Event counters

- E1: Number of regular cycles
- E2: Number of override operations
- E3: Number of times at high levels



Functions of the buttons on the operator interface:

- A: Advance one page on the operator interface
- B: Go back one page on the operator interface
- ESC: Display the status of the inputs and outputs of the programmable relay
- -: Use this key to move the cursor ahead and to lower a value
- +: Use this key to move the cursor back and to increase a value
- OK: Use this key to edit/save a value

## CONNECTIONS

### WIRING FROM THE RESIDENCE

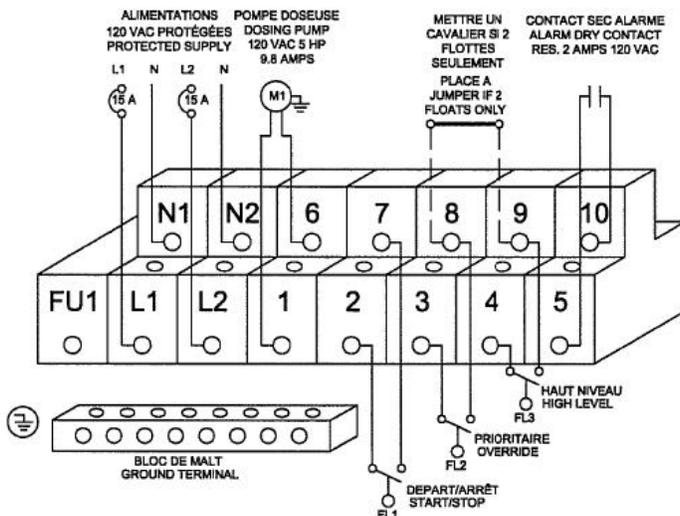
Supply (power):

- black wire at terminal L1 (120 V)
- white wire at terminal N1 (neutral)
- green/yellow wire at ground terminal

Supply (control):

- black wire at terminal L2 (120 V)
- white wire at terminal N2 (neutral)
- green/yellow wire at ground terminal

If only one supply is available, add a jumper between L1 and L2, and another between N1 and N2. However, it is advisable to have separate supplies so that the alarm can be monitoring in case the circuit-breaker connected to L1 opens.



### WIRING FROM THE PUMPING STATION

Pump connections

- black wire at terminal #1
- white wire at terminal #6
- green/yellow wire at ground terminal

Start/stop float connections

- black wire at terminal #2
- white wire at terminal #7

Override float connections

- black wire at terminal #3
- white wire at terminal #8

High-level float connections

- black wire at terminal #4
- white wire at terminal #9

### SPARE PARTS

Spare parts available in case something breaks are:

DESCRIPTION	CODE	BRAAND	MODEL
Contact switch	C1	Omron	G7L-1A-TUBJ-AC120
Relay	R1	Omron	G2R-2-S-AC120
Fuse	FU1	Bussman	GMA-2A
Red light	LT1	Solico Mexico	2950-1-1-2-3910
Sound alarm	AS1	Edwards	123A-N5
Push button	PB1	Sprecher & Schuh	D7PF9 et D7AF6



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# Certificate of Warranty for the Dosing Control Unit TPA-350/E

## 1. PREAMBLE

Premier Tech Technologies Ltd. (hereinafter called "Premier Tech") is proud to provide its customers with this Warranty on the **Timed Dosing Unit TPA-350I and TPA 450E** (hereinafter called "**TPA-350I/E**").

For the application and interpretation of this warranty, "Customer" shall mean the person who has purchased a **TPA-350I/E** (hereinafter called "Initial Purchaser"), as well as any subsequent purchaser (hereinafter called "Subsequent Purchaser(s)"), in accordance with the provisions of Section 8 of this Warranty. "Successor(s)" shall mean any other person entitled to exercise the same rights as the Customer under the law.

## 2. NATURE OF THE WARRANTY

Premier Tech warrants to the Customer any and all parts of the **TPA-350I/E** (parts and labor) against any manufacturing defect for a period of one (1) year from the date of purchase by such Customer (proof of purchase required) provided the **TPA-350I/ECU** was installed according to the installation and usage instructions described in the Installation Guide and the Owner's Manual.

This standard Warranty is provided by Premier Tech to its customers in addition to any legal warranties and is expressly limited to the text of this Certificate.

## 3. NOTICE

For this Warranty to be valid, the Customer must notify Premier Tech in writing immediately upon the appearance of any indication of an anomaly or irregularity in the design or the operation of the **TPA-350I/E**.

Such notice shall be mailed to the Premier Tech Head Office at 1, avenue Premier, Rivière-du-Loup, Québec, G5R 6C1, CANADA or by facsimile to (418) 862-6642.

Upon receipt of this notice, Premier Tech shall examine the situation and, if necessary, take appropriate corrective measures in accordance with the terms of this Warranty.

## 4. GENERAL EXCLUSIONS

The following damages or problems are excluded from the Warranty:

- (a) Any damage or problem caused by a fortuitous event or "act of nature", such as, without limiting the generality of the foregoing, an earthquake, a flood, frost, hurricane, landslide, explosion, dynamiting, or rise in the level of the water table;
- (b) Any damage or problem caused by the fault or act of a third party;
- (c) Any damage or problem arising from a defective installation of the **TPA-350I/E** and/or from products located upstream or downstream of the unit;
- (d) Any damage or problem arising from any installation, modification, correction or addition to the treatment system carried out after the installation of the **TPA-350I/E**, without prior written approval from Premier Tech;
- (e) Any damage or problem, if it is shown that the installation and usage of the **TPA-350I/E** were not in accordance with the instructions and guidelines described in the Installation Guide and the Owner's Manual;
- (g) Any damage or problem caused by an omission or act of the Customer or the Customer's Successors.

## 5. PARTICULAR EXCLUSIONS

It is further expressly understood that the Customer may not carry out or cause to be carried out any repair or verification of the **TPA-350I/E** sold to him, or attempt to carry out any work or to apply any corrective measures whatsoever to said work, before notifying Premier Tech in accordance with the provisions of Section 3 of this Warranty and before Premier Tech has visited the site, within a reasonable time following receipt of said notice, to assess the situation.

If the Customer carries out or causes to be carried out repairs, or attempts to repair or to apply corrective measures of any kind whatsoever to the **TPA-350I/E** sold to him without prior authorization by Premier Tech, this Warranty shall be considered null and void and Premier Tech shall be considered completely discharged from any and all of its obligations under this Warranty.

## 6. INDEMNITIES AND DAMAGES

Premier Tech's liability and obligations regarding any corrective measure carried out or any attempt to correct an indicated problem shall be limited to replacing the defective parts of the **TPA-350I/E** and to supplying the required labor, if applicable, in accordance with Sections 3 and 4.

## 7. LIMITATION OF LIABILITY

Premier Tech's compensation or indemnification obligation shall be limited to the provisions of Section 6 of this Certificate of Warranty and Premier Tech shall not be held liable for any other damage or loss that may have been suffered or incurred by the Customer or any third party in connection with the **TPA-350I/E**.

## 8. TRANSFER OF OWNERSHIP

In the event of transfer of ownership, sale, assignment or disposition in any way whatsoever of the Customer's property to a third party, this Warranty shall continue to be valid. The person proceeding to the transfer, sale, assignment or any other type of disposition of the property undertakes to hand over to the Subsequent Purchaser or his Successor, the Certificate of Warranty received upon completion of the work, as well as the **TPA-350I/E** Owner's Manual.

## 9. INSPECTION

The Customer and/or the Customer's Successors shall allow Premier Tech or its duly authorized representatives to carry out all necessary monitoring and inspection, as required, for implementation of this Warranty.

If the Customer and/or the Customer's Successors notify Premier Tech of an alleged defect or malfunction of the **TPA-350I/E** and that, after inspection, it is found that no such defect or malfunction exists, or, that the such defect or malfunction is excluded from or does not apply to the Warranty, a minimum charge of \$150.00 plus direct expenses shall be paid by the Customer and/or the Customer's Successors for the cost of the inspection.

# Certificate of Warranty for the Dosing Control Unit TPA-350

## 10. INTERPRETATION

The terms of this Warranty shall be interpreted and governed by the provisions of this Warranty and the legislation in effect in the Province of Quebec.

## 11. PRIORITY OF THE CERTIFICATE OF WARRANTY

This Warranty supersedes any contract or understanding, written or verbal, entered into between the Customer and Premier Tech. In case of contradiction between this Warranty and any other

documents and/or contracts entered into between the Customer and Premier Tech, this Warranty shall prevail.

## 12. SUBSEQUENT PURCHASERS AND SUCCESSORS

Subject to the provisions of this Warranty and especially those of Section 8, this Warranty shall continue to be valid for Subsequent Purchasers and Successors and shall continue to have full effect until the end of the agreed Warranty period provided for in Section 2 of this Certificate.