AT200-WP1 Series

Instruction **Manual**

- **AT200 -WP1**
- **AT200-WP1-PE-1.3**
- **AT200-WP1/1S**

CYCLICAL DOSING/BLEED TIMER CONTROLLERS

Supplied by:

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Note: On-going product development at Convergent Water Controls may lead to changes in the specifications of this product.

Warranty: This product is guaranteed for a period of 12 months from installation date. The warranty applies to manufacturing or component defects which may cause the unit to malfunction under specified conditions. The guarantee does not cover damage due to abuse, tampering or improper installation.

Disclaimer: Convergent Water Controls will not be held liable for any consequential damage or loss arising resulting from product malfunction.

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1. INTRODUCTION

The AT200 control packages are all designed to cycle a process on and off, rather than have it active all the time. A typical example is to dose a pump on a cycle or activate a solenoid valve on a cycle.

In the AT200-WP1 series, on power-up the pump/valve goes into an active state (typically seconds or minutes), where the pump/valve operates, followed by an idle state for a time period (typically minutes or hours). This cycle repeats until the unit is powered down.

2. DESCRIPTION OF OPERATION

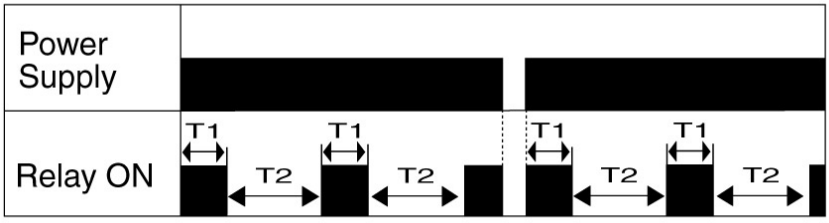
The AT200 timer starts timing as soon as mains power is applied.

When the AT200-WP1 is powered, a DOSING (or BLEED) time commences. Once the DOSING (or BLEED) time is complete, an IDLE time commences. During the DOSING (or BLEED) time, the pump is dosing (or the solenoid valve is energised). Once, the IDLE time is complete, the cycle starts again with another DOSING (or BLEED) time.

After experimentation, the adjusted time settings will provide sufficient dosing (or bleed) to maintain the correct chemical concentration (or to keep the TDS at a desirable level).

The diagram below illustrates this:

AT200-WP1 Operation

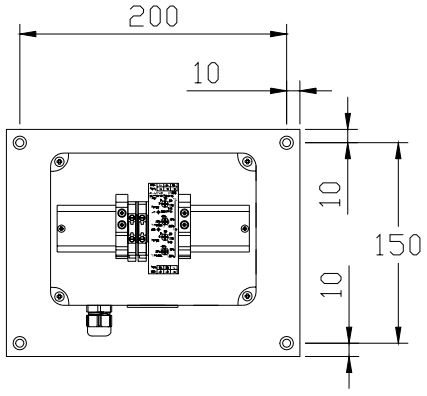


T1 = Time set for DOSING (or BLEED) time
T2 = Time set for IDLE time

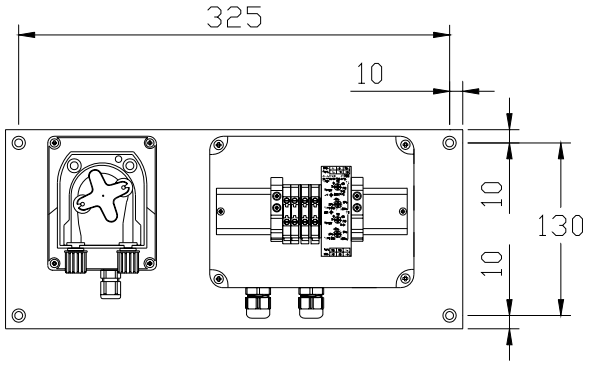
Timer: **Operation:**	Rhomberg AT200 Function 2: Asymmetrical Recycling, ON cycle first (Terminals Y3 & Y4 linked).
T1: **T2:**	Dosing (or Bleed) Time **(default 6 seconds)** Idle Time **(default 2 minutes)**
L1: Red LED **L2: Green LED**	Dosing (or Bleed) occurring (ie. pump or solenoid valve activated) Power On (Flashing indicates timing)
Default Time Range for T1: **Default Time Range for T2:**	Seconds Minutes
To change T1 (ie. Dosing or Bleed time) to minutes: **To change T2 (ie. Idle time) to seconds:**	Add a link between terminals Y1 & Y3 Remove the link between terminals Y2 & Y3 **(WARNING: remove power before adding or removing links)**

3. INSTALLATION

3.1 Physical Mounting



AT200-WP1, AT200-WP1/1S

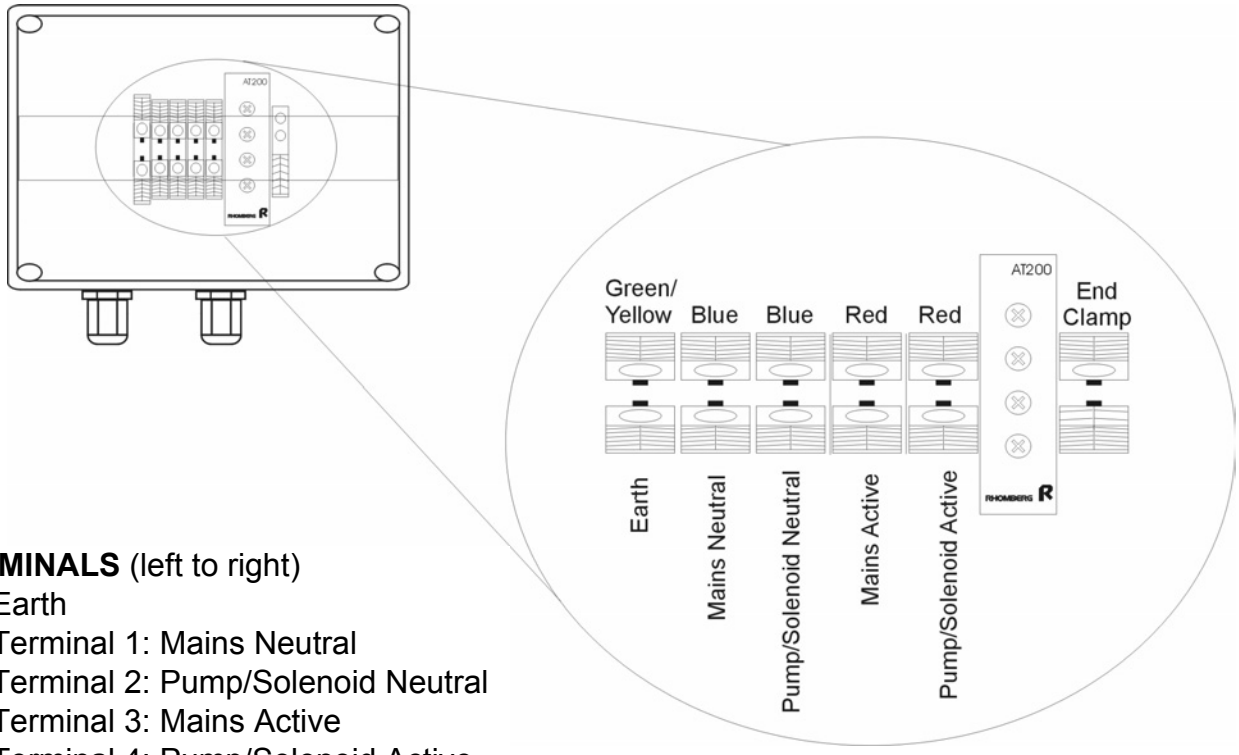


AT200-WP1-PE-1.3

Note: Mounting holes 6mm diameter, countersunk

3.2 Electrical Wiring Information

The diagram below shows the terminal connections



TERMINALS (left to right)

- Earth
- Terminal 1: Mains Neutral
- Terminal 2: Pump/Solenoid Neutral
- Terminal 3: Mains Active
- Terminal 4: Pump/Solenoid Active

4. SPECIFICATIONS

	AT200-WP1	AT200-WP1/1S	AT200-WP1-PE-1.3
Controller Function			
Variable Measured	Time		
Range	ON/OFF cycle: 0.2s - 4hr each (independently set)		
Control Function	Repeated ON/OFF Cycle, ie. Dose time followed by Idle time		
Device Controlled	Switches 240VAC internally to wire in optional dosing pump or valve	Switches 240VAC GPO for plugging in optional dosing pump	Activates peristaltic pump (1.3l/hr, 3bar)
Electrical			
Power Supply	220-240 VAC, 50/60Hz		
Control Relay Output	240VAC switched		
Relay Rating	5A/250VAC, resistive load		
Physical			
Protection	IP55 (weatherproof)		IP55 + IP65 (weatherproof)
Panel Dimensions	170 (h) x 220 (w) mm		150 (h) x 345 (w) mm
Packaged dimensions	350mm (l) x 350mm (w) x 200mm (h)		
Packaged weight	3 kg		5 kg