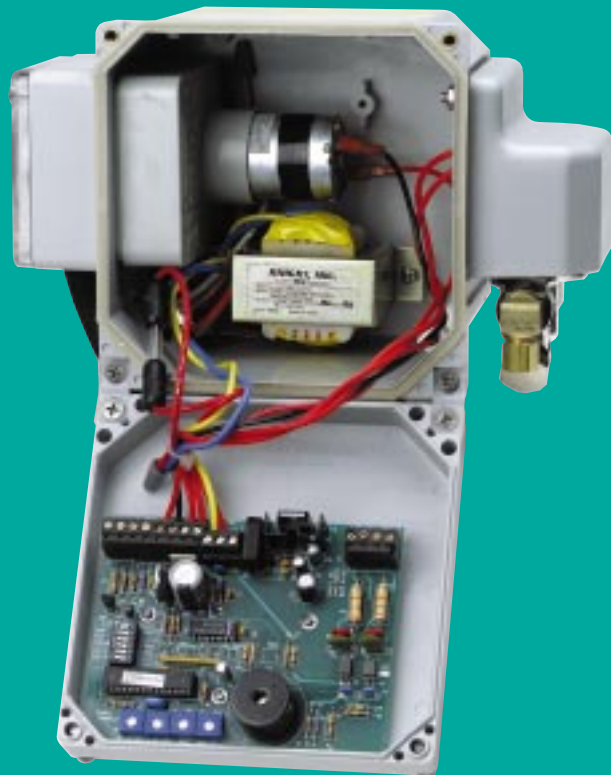


KNIGHT Ultra Micro Pro

SPECIAL FEATURES

- Economy Priced System
- Compact, Watertight Plastic Case
- Easy To Set Concentration
 - Dual Range
- Long Life Rinse Motors
 - Up To 3000 Hours
- Long Life Probe Circuit
- Probe Or Probeless Operation
- Rinse Saver Operations
- Built In Transformer
 - 115, 208 or 230 VAC 50/60 HZ to 24 VAC
- Proven, Long Life Squeeze Tubes
- Custom Labeling Available
- External Rinse Prime
- Louder Alarm And Volume Control



KNIGHT
IDEX

KNIGHT Ultra Micro Pro

Ultra Micro-Pro UMP-Series warewash systems provide the versatility of probe or probeless detergent control through advanced microprocessor design. With the capability of controlling up to two products, and the choice of liquid or dry detergent, virtually any warewash application can be accommodated. The UMP Series warewash control features simplicity and versatility at an "Ultra" low price.

SLIDE SWITCH SETTINGS

- **Probe/Probeless Switch:** Allows you to select operation with or without a probe
- **Door/Conveyor Switch:** Used if operating in probeless mode.
- **Low/High Range Switch:** Used if operating in probe mode. Selects concentration ranges.
- **Low/High Audio Switch:** Sets the alarm volume.
- **On/Off Rinse Limit Switch:** When on, stops the rinse pump after 30 seconds.



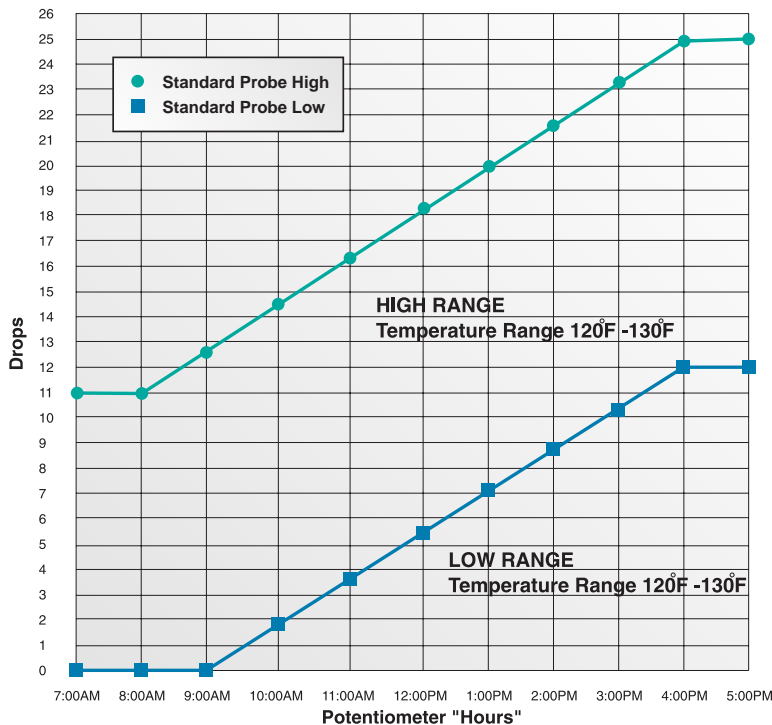
POTENTIOMETER SETTINGS

- **Concentration or Recharge Pot:** In "probe mode" sets detergent concentration strength. In "probeless mode" sets the pump time necessary to recharge the detergent concentration.
- **Alarm Delay or Initial Charge Pot:** In "probe mode" sets the time before the alarm sounds if the probe senses low detergent concentration. In "probeless mode" sets the pump time for detergent initial charge.
- **Rinse Speed Pot:** Adjust the rinse speed.
- **Rinse Delay Pot:** Delays the rinse pump from 0 to 14 seconds.

Adjustment Potentiometers

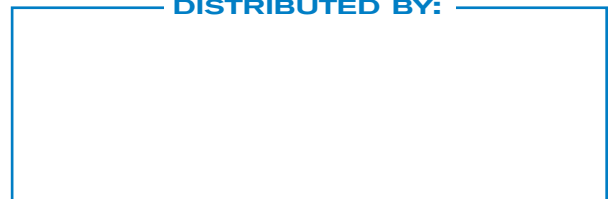
Knight's unique probe life enhancement circuitry, first introduced in 1994, samples the washtank solution in short bursts, 1/100 th of a second long. This rapid, short sampling greatly enhances probe life while holding the tightest concentration levels possible. The Dual Range Concentration setting provides broad, linear adjustment ranges for easy setup in all types of water conditions. Knight's PWM (Pulse Width Modulation) variable speed circuitry ensures linear rinse motor speed adjustment and maximum brush life.

UMP CONCENTRATION CURVE



Model	Part No.	Description
UMP-100 L	7162800-07	Ultra Micro Pro With (1) KP-500 Pump for Liquid Detergent
UMP-100 D	7162805-07	Ultra Micro Pro With (1) S-24 Solenoid for Dry Detergent
UMP-200 L	7162810-07	Ultra Micro Pro With (2) KP-500 Pumps for Liquid Detergent and Rinse
UMP-200 D	7162815-07	Ultra Micro Pro With (1) KP-500 Pump for Rinse and (1) S-24 Solenoid for Dry Detergent

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KNIGHT LIMITED WARRANTY

All Knight controls and pump systems are warranted against defects in material and workmanship for a period of ONE YEAR. All Electronic Control Boards have a TWO YEAR warranty. Warranty applies only to the replacement or repair of such parts when returned to the factory with a KRA number, freight prepaid and found to be defective upon factory inspection. Rubber and synthetic rubber parts such as "O" rings, diaphragms, squeeze tubing and gaskets are considered expendable and are not covered under warranty. Warranty does not cover liability resulting from performance of this equipment nor the labor to replace this equipment. Product abuse or misuse voids warranty.

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