

CONCENTRATION CONTROL SYSTEMS



KIC-28120

NEW INDUSTRIAL WATER TIGHT STAINLESS STEEL CASE !

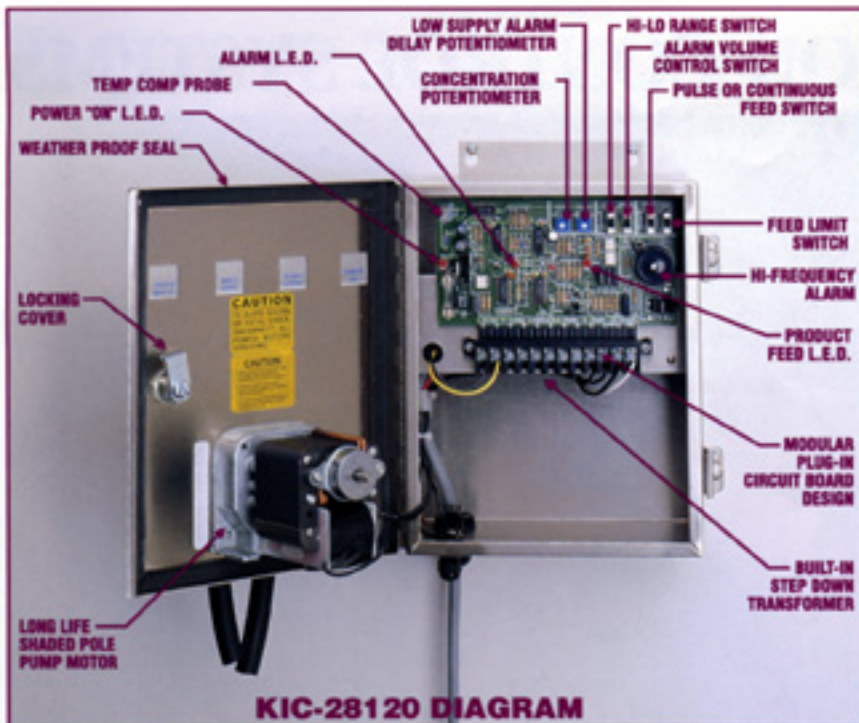
▶ SPECIAL FEATURES:

- ▶ Plug-in Modular Electronics
- ▶ Optional Temperature Compensation
- ▶ Instant Concentration Control
- ▶ Adjustable Delay Warnings
- ▶ Buzzer Volume Control Switch
- ▶ Pulse/Continuous Feed Switch
- ▶ Over Feed Limit Switch
- ▶ Dual Range Control
- ▶ Self Priming Peristaltic Pumps
- ▶ Feed Rate up to 226 oz./min.
- ▶ Water Tight "NEMA 4" Style S.S. Case
- ▶ Prewired for 115 or 230 VAC 50/60 Hz

▶ HOW IT WORKS!

The **Knight Industrial Control Systems** features an electronic sensing control that will monitor the total dissolved solids (**T.D.S.**) of chemical concentration in a wash or make-up tank and automatically activate a reliable, self-priming peristaltic pump to feed chemical and maintain a preset, consistent solution strength in commercial washers, **CIP** tanks, or other similar applications.

Proven dependability and state-of-the-art technology built into a heavy duty, water-resistant stainless steel case . . .



KIC-28120 DIAGRAM

KIC-28120 SPECIFICATIONS:

Enclosure: # 304 Stainless Steel w/Locking Cover
Dimensions: (800 Series) 10-1/2"H x 6"W x 6-3/4"D
Electrical: 120VAC 60Hz, 230VAC 60Hz or 230VAC 50Hz
Pump Max Lift: 20 ft., Pump Max Push: 200 ft.
Conductivity:
Low Range: 2,500 umHos to 75,000 umHos
High Range: 50,000 umHos to 200,000 umHos
Standard Probe Cell: P-100S Tank Mount (.33 cell constant)
P-100C Tank Mount (1.0 cell constant)

FEED RATES:

KIC-29130 = 155 oz./min. KIC-28120B = 40 oz./min.
KIC-28120 = 23 oz./min. KIC-29170 = 226 oz./min.

DROP-IN PROBES:
For installations that cannot use a standard tank mount probe.
MODEL PART NO TIPS
DP-100S 7008100 STAINLESS STEEL TIPS
DP-100C 7008400 CARBON TIPS

CHEMICAL/PERISTALTIC SQUEEZE TUBE COMPATIBILITY CHART

| Chemical Solutions Containing | 8120A SERIES | 8120B SERIES | 900 SERIES |
|-------------------------------|--------------|--------------|-------------|
| Potassium Hydroxide | T-50E | T-66E | T-86E |
| Sodium Hydroxide | T-50E | T-66E | T-86E |
| Phosphoric Acid | T-50E/T-50T | T-66E/T-66T | T-86E/T-86T |
| Muriatic Acid | T-50E | T-66E | T-86E |
| Sulfuric Acid | T-50E/T-50T | T-66E/T-66T | T-86E/T-86T |
| Hydrofluoric Acid | T-50E | T-66E | T-86E |

NOTES: Use compatibility chart as a general selection guide only. Actual chemical blends may affect squeeze tube life. Our Engineering Department can test your product with appropriate squeeze tubes to verify proper application. Contact our office for further details.



KIC-140 CONTROL SYSTEM

The **Knight KIC-140 Series Chemical Concentration Controller** provides automatic control of chemical solution used. Cleaning processes such as **automatic dishwashing, CIP/COP, Potwashing, Cagewashing** and many other similar cleaning applications. A modular solid state circuit monitors total dissolved solids (T.D.S.) using a tank mounted or drop-in style probe.

The **KIC-140** is designed to operate many types of chemical pumps including peristaltic, diaphragm, piston or centrifugal. Modular plug-in circuit board maintains accurate, cost effective control of chemicals in solution. An optional temperature compensation probe reads changes in solution temperature to maintain accurate concentrations when temperatures vary during the process.

SPECIAL FEATURES:

- ▶ Optional Temperature Compensation
- ▶ Plug-in Modular Electronics
- ▶ Temperature Compensation
- ▶ Adjustable Delay Alarm Warning
- ▶ Adjustable Alarm Volume Control
- ▶ Pulse or Continuous Feed Mode
- ▶ Over Feed Limit Switch
- ▶ Dual Range Control for High or Low Concentrations
- ▶ Water tight (NEMA4) Style S.S. Case
- ▶ 24, 115 or 230 VAC Operation



KNIGHT LIMITED WARRANTY

All Knight controls and pump systems are warranted against defects in material and workmanship for a period of ONE YEAR. All Electronics Control Boards have a TWO YEAR limited 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 authorized inspection. Bearings and pump seals or 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 it. Product abuse or misuse voids warranty.

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