



# AP-IJ WATER CONDUCTANCE MONITOR INDICATOR/CONTROLLER SYSTEM

McNab, Incorporated

A02-49F

## DESCRIPTION

The Aqua Purometer IJ (AP-IJ) Water Monitor Indicator and Control System is used to monitor the purity of water by means of electricity. It may be installed at water tanks or piping systems and can be used to monitor a great variety of contaminants, detection, water treatment, RO water or separation processes involving dissolved solids.

Conductance values reflecting water purity level are linearly indicated on the panel meter. In general, the higher the reading the less pure the water. The scale on the panel meter may be changed to indicate chemical content (ppm) or any other special option. An adjustable limit of allowable impurity is included in the electronic monitor circuit (alarm set point). The alarm point is set to any desired meter level. If the water impurity level rises above this preset limit, the controller relay in the monitor circuit is energized, causing the ALARM indicator on the panel to light and/or a bell (where included) to sound.

## SPECIAL FEATURES

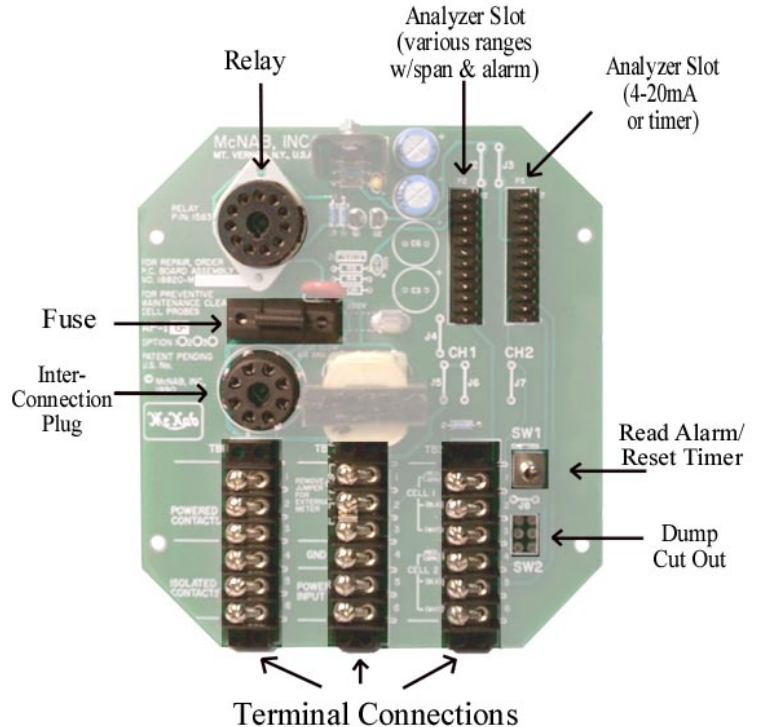
- 117 or 220 VAC 48/62 Hz
- Range: 0 to 20,000 micromhos
- Marine Approved – Robust design
- Flame-proof 316 Stainless Enclosure
- Automatic Electrical Self Zero
- Either grounded cell or balanced cell input
- 0-1 mA remote output standard
- Linear signal mode available as 4-20 mA isolated output
- Wall mounting
- Door hinged and gasketed
- Internal adjustable controls
- Meets USPHS control locations requirements
- Cabinet Size: 8¼"H x 7⅞"W x 5⅝"D
- Extra thick PC Board – 1/16"
- 120,000 MTBF



Enclosure

Stainless Steel enclosure withstands harsh environment without the added cost of accessory.

Meets need for marine shock and vibration.





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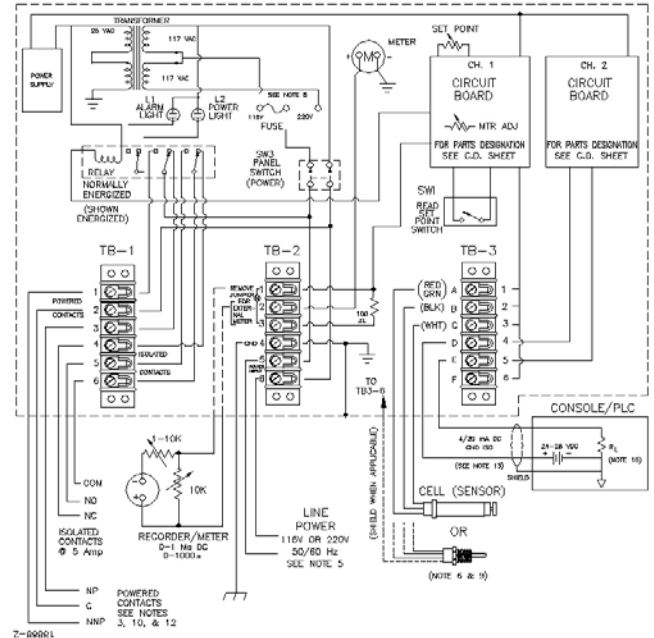
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## TECHNICAL DATA

Units of Measure	Microsiemens, mhos, ppm
Range	0-20, 200, 2,000, 20,000
Input Signal	Unbalanced, balanced
Mode	Linear
Meter/Type	2.5" Analog
Weight	6 lbs.
Cell/Instrument Valve	Provided with quotation
Temperature: Normal/Max.	Depends on design of cell
Pressure: Normal/Max. (typ)	65, 100 & 150 psi, Depends on design of cell
Pipe Connection Size	3/4, 1" or 1 1/4 NPT
Wetted Material	Depends on design of cell, typical gold electrodes
Cable Length (typ)	6 feet typical
Calibration	Cell test resistor
Accessory cell	(1) Semi-flush mounting kit (PN 18479) (2) Cell test module used for verification of correct operation (3) Drip shield (PN 18241) (4) 100 ft. cell cable (PN 22063-1001) (5) Cable strain relief (39131-7) (6) Alarm bell 220 VAC 50 Hz (by others)
Ranges Available	0-2, 20, 200, 2,000 or 20,000
Controller	Internal control adjusts set point, which is displayed on meter during adjustment procedure. Outputs: (suitable for two-wire automatic valve AC line voltage energized normally open and normally closed for solenoid dump valve). Non-energized normally open, and non-energized
Relay	Sealed. Contacts rated at 5 amps (resistive). Fail-safe mode.
Weight	2.75 kg (6 lbs.) panel only
Maximum Cell Temperature	To 120°C (250°C)
Diameter of Cell	3/4, 1 or 1 1/4 NPT
Instruction Book	PN 515

## CONNECTIONS



## TYPICAL CELL



CELL 3/4"