AP-ID RESISTIVITY MONITOR

McNab, Incorporated

DESCRIPTION

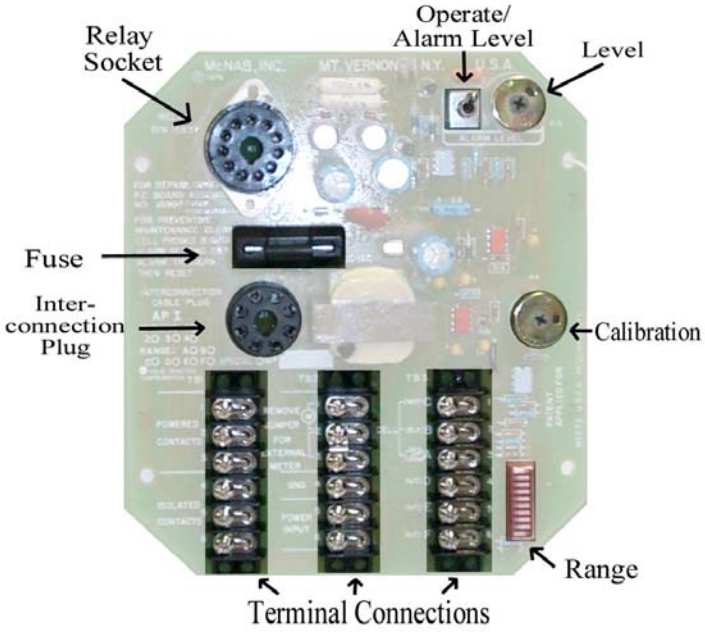
The Aqua Purometer ID System is a continuous, on-line, fluid monitoring system designed for industrial applications such as demineralization and other water treatment or separation processes involving dissolved solids. The AP-ID is available in a choice of three linear specific resistance ranges:

0-20 Megohms-cm
0-2 Megohms-cm
0-0.2 Megohms-cm

Consult McNab, Inc., for information on other ranges. Each specific resistance range is temperature compensated to 77º between the ranges of 32º F to 150ºF.

Simplicity is a major benefit of the AP-ID system. After the system has been installed and the desired setpoint action established, operation is completely automatic. The front panel door houses a large, easy to read analog meter, an on/off switch, and two indicator lamps, which are viewable over a full 180º: an amber power indicator and a red alarm indicator. The door, which can only be opened with a screwdriver, is hinged to allow easy access to the interconnection terminal blocks and serviceable components located within.

The system functions to sense the concentration of dissolved solids in a continuous fluid sample, to provide meter indications of the specific resistivity of the sampled fluid, and to actuate a controller relay when the detected concentration is less pure than that desired by the user. The unit of specific resistance is the Megohm-cm, one Megohm being one million (1,000,000) ohms. As water purity increases, specific resistance increases – as water purity decreases, specific resistance decreases. The controller relay is activated as the specific resistance decreases below the user chosen setpoint. Both line powered and isolated controller relay contracts are provided, and either may be accessed as normally open or normally closed.



SPECIAL FEATURES

- Linear Mode
- Corrosion-Proof Stainless Steel Cabinet
- EMI Proof Cabinet
- Controls located in tamper-proof section.
- MTBF 120,000 Hours
- Alarm Contacts

20 North MacQuesten Parkway ♦ Mount Vernon, New York ♦ 10504 U.S.A.
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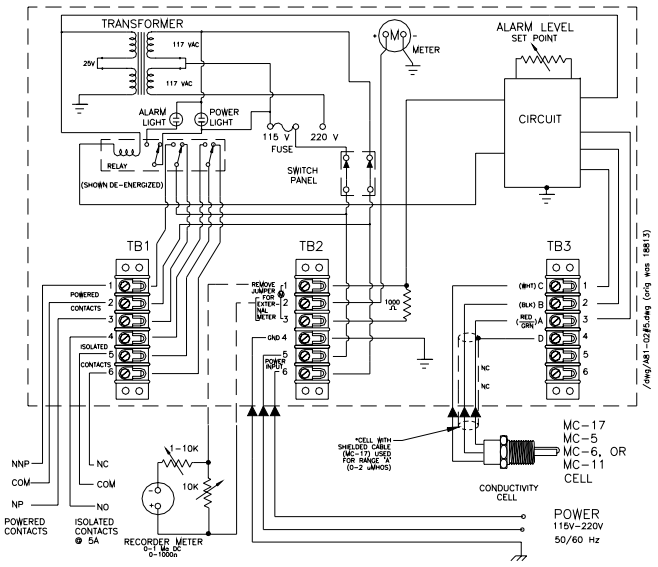
TECHNICAL DATA

Units of Measure	Megohms-cm
Range	0-20, 2, or 0.2
Input Signal	Balanced
Mode	Linear
Mounting Dimensions	8 1/4" H x 7 1/8" W x 5 5/8" D
Housing NEMA/Material	Stainless Steel NEMA 12
Meter/Type	Analog
Output	0-1mA
Power Requirements	117 or 230 @ 1 Amp
Weight	6 lbs.
Cell/Sensor	Provided with quotation
Temperature: Normal/Max. (typ)	Provided with quotation
Pressure: Normal/Max. (typ)	100 psi, 150 psi
Connection Size	¾" or 1" NPT
Wetted Material	Gold
Cable Length (typ)	6 feet
Instruction Book	540

ACCESORIES

Semi-flush mounting kit	PN 18479
Cell test module used for verification of correct operation	Contact Factory
Drip shield	PN 18241
100 ft. Cell Cable	PN 22063-1001
Cable Strain Relief	PN 39131-7
Alarm Bell (by others)	220 VAC 50 HZ

CONNECTIONS



TYPICAL CELL

Cell ¾"

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