

Model 110

Features

- Continuous monitoring
- Sensitive & stable due to optical sensing
- Potassium Permanganate specific-no interference from chlorine or other oxidants
- No chemicals or reagents required during operation
- Easy economical installation
- Easy calibration & testing
- Easy maintenance with infrequent chemical cleaning
- Low operating cost
- For new or existing installations
- Data recorder option makes it easy to keep records of Permanganate concentration continuously for up to 21 days unattended
- Can be connected to a low cost chart recorder

The Hungerford & Terry, Inc. Potassium Permanganate Controller

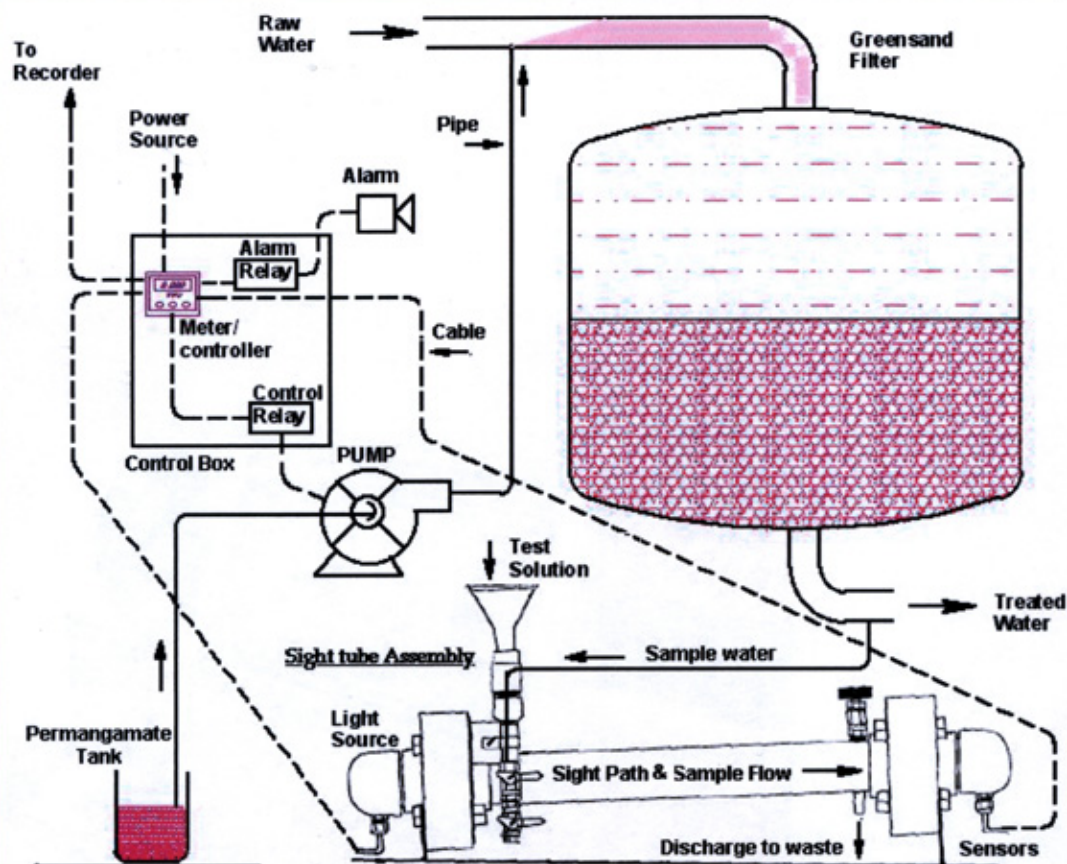
The Hungerford & Terry, Inc. Potassium Permanganate Controller

provides for continuous monitoring of Potassium Permanganate concentration, controlling that concentration, and providing a read-out as well as a duplicate output for recording.

The controller continuously views a sidestream sample taken from the effluent. Spectroscopic quality optical filters identify and quantify the presence of Permanganate. The control uses on-off PID control to maintain a setpoint quantification in the effluent. The control is extremely sensitive and can maintain the concentration to within 75 PPB of the setpoint.

EQUIPMENT DETAILS:

- Resolution: 1 PPB
- Accuracy: + or - 50 PPB
- Maintains PID control of a setpoint using a relay to control the pump
- The reading from the meter is provided as a separate output for a recorder, 0-5000 MV = 0-500 PPB
- Power supply can be 120/220V, 50/60Hz, @ 3/4A
- Control box is rated NEMA 4X
- Max water pressure 125 PSI
- Min water pressure 40 PSI
- Net Shipping weight 31 lb.
- Digital readout is 4 digits
- Both the alarm and control relays each have one dry form "C" contact rated 1 ampere at 250 Volts AC



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Specifications

- Dimensions:

Sight tube: 30" L. X 7" W.
(max)

Wall-mounted control box: 7-1/4" X 7-1/4" X 5-1/4" (max)

- Net shipping weight: 31 lbs.

- Power supply: 120 VAC, 60 Hz, with 3/4 Ampere integral fuse and integral MOV overvoltage protector. Or, special order 220 VAC 50/60 Hz.

- Supply pressure must not exceed 125 PSI or fall below 40 PSI.

- Cable supplied for connection between the Control Box and the Sight Tube is 10 feet long. The distance from the Control Box and the Sight Tube may be extended with the addition of special cables, up to 300 feet.

- Resolution: 1 PPB

- Accuracy: + - 50 PPB

- Maintains PID control of a setpoint using a on-off relay to control the pump

- Requires the temperature of the water be raised to within 20 degrees of the ambient temperature on hot and humid days. This can be done with about 20 feet of copper tubing in water supply line to the instrument.
- Sample rate: ~ 100 ML/min.
- Max ambient air temperature deviation in one 24 hour period: 50 degrees Fahrenheit (for accuracy).
- Max ambient temperature: 100 Degrees Fahrenheit

