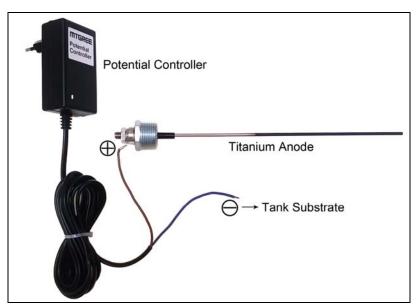


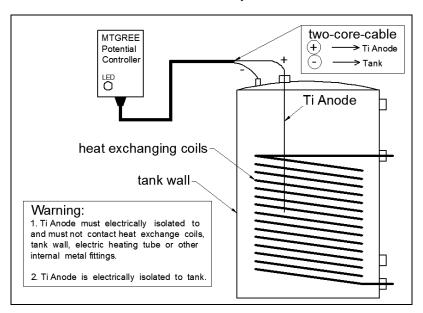
Datasheets, Installation and Operating Instruction for ME® or MT® ICCP systems

I. Introduction to ME® or MT® ICCP system

A. ME[®] or MT[®] system parts



B. Figure A: Schematic Installation of ME® or MT® system in a Tank.



- C. ME® or MT® models are impressed current corrosion protection systems (ICCP). Each model of ME® or MT® system consists of a potential controller, a titanium electrode with Mixed Metal Oxide Coating, a R3/4 (or G3/4 or NPT3/4) screw for installation, cables and connector;
- D. ME[®] or MT[®] system impresses protecting current to tank, measures tank off-potential periodically, regulates output current and precisely maintains tank potential, so as to protect tank from getting corroded;
- E. Thanks to MMO coated titanium electrode, ME® or MT® system is designed to serve more



than 10 years and needs no maintenance or replacement than other system using a sacrificial magnesium anode or an aluminum anode;

II. ME®, MT® parameters and applications

Below information is for reference purpose only when selecting a system for your tank. Pls contact Mtgree Co., Ltd for more technical instruction and information.

Note: P. Controller= Potential Controller, P. Target= Potential Target.

	For Enameled Carbon Steel Tank					For Stainless Steel Tank		
P.Controller	ME [®] UP	ME [®] OP				MT [®] UP	MT [®] OP	
Input	110-230	110-230 VAC, 50HZ				110-230	110-230 VAC, 50HZ	
	VAC,				VAC,			
	50HZ					50HZ		
Output Current	50 m A	100 m A				100 m A	180 m A	
P.Target	2.3 V	2.3 V				1.9 V	1.9 V	
Ambient tem.	0°-70℃	0°-70°C				0°-70℃	0°-70℃	
IP Rate	55	55				55	55	
Tank Volume.	1x Ti200	1x	2x	1x	2x Ti800	1 x Ti400	1x Ti800	2x
Liter		Ti400	Ti400	Ti800				Ti800
50	*					*		
80	*					*		
150	*					*		
200		*				*		
300		*					*	
400		*					*	
500		*					*	
800			*	*			*	
1000			*	*			*	
1500			*	*				*
2000					*			*

III. Warnings against personnel injury and water heater damage in process of installing ME® or MT® system:

- A. This system must be installed only by qualified persons;
- B. Before installing ME® or MT® system in tank, please turn off the electric power to your water heater, for defective electric heating tube element might cause fatal electric strike to person;
- C. Wrong polarity causes increased tank corrosion, please make sure right polarity of connecting cable. Right connecting is:
- D. Potential Controller "+" pole → Titanium anode;

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Potential Controller "-" pole → Tank Substrate;

- E. Titanium anode touching internal tank wall or other metal tank fittings causes increased tank corrosion or increased fittings corrosion or ME® or MT® system malfunctioning.
- F. Please keep tank full of water all the time in order to run ME® or MT® system properly. If MMO coated part of titanium electrode does not contact water completely, ME® or MT® system will not work properly and will not protect your tank;
- G. Please power ME® or MT® system all the time, power off leads to no corrosion protection.

IV. Process of installing ME® or MT® system to your tank:

- A. To power off your water heater;
- B. To shut down inlet valve to tank;
- C. To empty water from tank;
- D. To remove magnesium rod or aluminum rod from tank;
- E. To install ME® or MT® system and make sure 1): titanium electrode does not contact inner tank surface or other metal fittings in the tank, 2): titanium anode is insulated with tank; 3) right polarity connection;
- F. By using a multimeter to measure the electric resistance between titanium electrode and tank construction before filling water into tank, this measured resistance is normally over 1 mega ohms;
- G. To fill water until tank is full and titanium electrode is completely immersed in water;
- H. To power on and start ME[®] or MT[®] system;
- I. To check if the LED lights green.

V. Warnings against User's injury and water heater damage during ME[®] or MT[®] system running:

- A. This system must be maintained and troubleshot only by qualified persons;
- B. No power supply to ME® or MT® system, no corrosion protection to your tank, please keep ME® or MT® system power on all the time;
- C. For all the time, keep tank full of water. When titanium electrode does not completely contacting water, ME® or MT® system does not work properly or fails to work, or work life of ME® or MT® system will greatly decrease;
- D. Tapping water from tank at least one time per month to release gas produced by running of ME® or MT® system;
- E. ME[®] or MT[®] system is automatic and alarms with LED lighting red when something wrong happens, when ME[®] or MT[®] system runs properly, LED lights Green.



VI. Possible failure reasons when potential controller's LED lights red:

- A. Tank is not fully filled with water, or too much gas produced by ME® or MT® system accumulates inside tank;
- B. Wrong polarity connection;
- C. Electric insulation between Titanium Anode and Tank is not good;
- D. Open circuit for DC current from controller→titanium→tank→controller;
- E. ME® or MT® system power is not enough for your tank, i.e. your tank needs too much impressed current than your in-operation system can supply, your tank needs more powerful ICCP system.

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