

MF Series UV Power Source + UV Level Detection

The MFUVD series UV power sources with integrated UV detection are compatible for use with most single lamp UVDynamics water disinfection products. In addition to the features of the basic MF series product, the UV Detect version also features: **Advanced UV Detection System** – designed to minimize nuisance alarms that have plagued many of the earlier attempts to implement equipment with UV detection capability.

Teflon UV detection probe body – using a single piece Teflon UV detector probe body, which eliminates the quartz window used in most competitive products, not only enhances the integrity of the probe, but also eliminates any possibility of air bubbles forming over the detector active area which could result in erroneous UV readings. The Teflon is less prone to fouling compared to quartz, extending the cleaning interval in situations where UV depreciation due to coating of the quartz sleeve is present. All UVDynamics UV detector probes utilize state of the art long life Sic (silicon carbide) photo diodes.

Solenoid Override – The MFUVD series of UV power sources is equipped with a 24 hour solenoid and audio alarm override function. This allows the user to enable water flow during low UV alarm conditions. This feature will prove useful when drinking water systems are shock disinfected with chlorine, which can result in water with very low UV transmittance, or in situations where there has been a drop in UV intensity due to fouling of the quartz sleeve which could result in an alarm condition, especially if the unit has been idle and the disinfection chamber temperature is elevated.



Two Digit UV Level Display – As well as indicating the UV level in percent, the display will indicate the number of weeks of lamp life remaining when the timer button is depressed. If there is a malfunction of the power source or detector system, the display indicates a discrete error code to aid with diagnostics and resolution of any performance issues.

True Lamp Current Detection is used in all MF series products. This proprietary current measuring technique subtracts the current flowing through the lamp filaments from the total current flowing in the lamp circuit. This circuit enables the MF series ballast to control the lamp current more precisely and makes it possible to accurately verify lamp operation even at lower input voltages which could cause less sophisticated current detection techniques to give a false lamp-on indication.

Isolated Low Voltage Solenoid Output – Simply install the solenoid valve and connect. No external transformer, no line voltage solenoid valves, and no accessory cables are required. **Data output** to drive external status indicators and provide service providers with access to a wide range of diagnostic data.

Lamp Change Reminder Timer is included on all models to remind users that the lamp has reached the end of its rated life. After the lamp has operated for approximately 52 weeks, the user is provided with a 28 day grace period. At the start of the grace period the timer LED will flash and the audio alarm will sound. Pressing the timer reset button when in the grace period mode silences the audio alarm for a seven day period. The alarm can be silenced for a total of four seven day periods, but will not extend beyond the 28 day total.

Application Specific Design - The MF series product is specifically designed to operate low pressure germicidal lamps, and is not a re-packaged lighting ballast. Excellent thermal management and only the highest specification critical components ensure long life.

The MF series ballast was designed and is manufactured by UVDynamics in our own facility. The product is assembled using SMT (surface mount technology) on automated equipment and each UV power source is individually calibrated and tested prior to shipment. Our company has been designing and manufacturing UV detection systems for water applications for over twenty years.



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