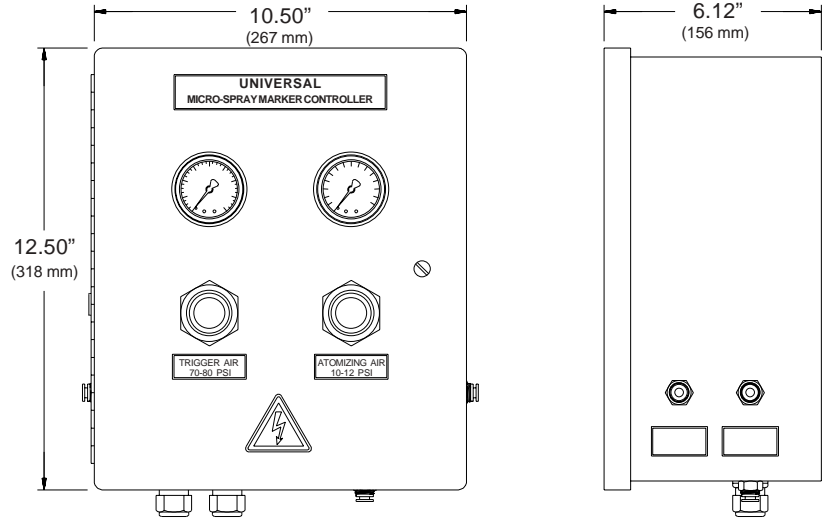


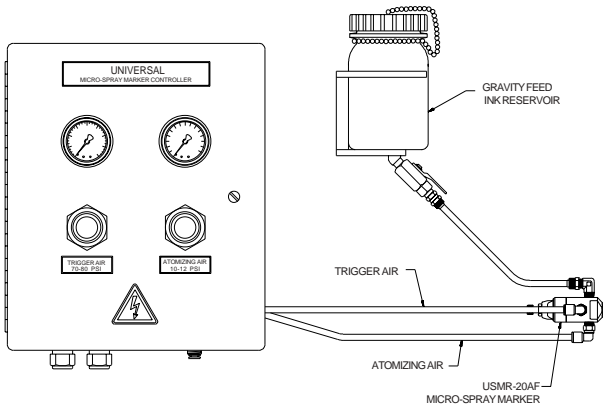
USM-100 & USM-100A



Micro Spray Marker Controllers

Universal USM-100 and USM-100A Micro-Spray Marker Controllers have been designed to control the function of one or more USMR-20 Series Micro-Spray Markers in spot or stripe marking applications. These control systems incorporate the required pneumatic and electronic components in an easy to install package. Both controllers require connection to a source of clean, dry 80-100 psi compressed air and 115 VAC 60 Hz electrical power for operation.

The USM-100 & USM-100A controllers are identical in design except for the signal inputs they will accept for initiate triggering. The USM-100 Controller accepts only a dry contact closure input signal to initiate the marking cycle. The contact closure signal is typically supplied by either a microswitch, foot pedal switch or a contact closure output from a PLC. Since some parent equipment outputs an electrical signal of a specified voltage when the marking cycle is to be initiated, the USM-100A Controller contains an auxiliary plug-in relay to convert the electrical signal to a dry contact closure signal for the controller. The auxiliary relay is selected with a coil rated for the voltage of the supplied signal.



When a momentary or maintained initiate signal is received by the controller, the marker will spray for the time interval set on the controllers adjustable one-shot timer. The standard one-shot timer outputs a .05-1 second signal to the internal solenoid valve and is adjusted by a potentiometer inside the cabinet. Optional one-shot timers are available to cover a wide range of output signal durations.

To apply a spot mark to a part, the one-shot timer is set to output a trigger signal duration of approximately 100 milliseconds. On moving parts, stripe marks are applied as the part passes the stationary marker and the length of the stripe is determined by the distance the part travels in the time interval set on the one-shot timer. For example, if the one-shot timer is set for a 1 second trigger signal duration and the part is moving at a velocity of 60 feet per minute, a 1 foot stripe mark will be applied.

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