

MTMS KIT

(Melt Temperature Measurement System)

Injection Molding Plastic Melt Temperature Measurement Kit



Frequently Asked Questions:

Is MTMS, LLC the OEM for the MTMS Kit?

A: Yes, MTMS, LLC is the original equipment manufacturer (OEM).

Will the MTMS Kit work on all press manufacturers?

A: The MTMS Kit works on all presses with a standard 4-inch locating ring with standard nozzles with either 1/2-inch or 3/4-inch radius.

Will the MTMS Kit work on all materials?

A: The MTMS Kit works on most materials, except for mineral and high glass-filled materials >30%, due to its thermoconductivity which gives up heat too rapidly and will give more variable readings.

What if I forget to put a purge cup in the assembly and shoot a shot?

A: The purge will solidify immediately and dame to the probe may occur.

Why am I getting a reading that is substantially off from what I expect?

A: The pyrometer is interchangeable between a Type K and J. The MTMS thermocouple is a Type K. The pyrometer must be set to type K. To set, push the Type button on the pyrometer keypad until the "K" appears on the screen. Now retest for the correct temperature.

The MTMS thermocouple probes are specifically engineered with a "dead stop" and for extremely fast response times. Other probes will not work with the MTMS Kit. The MTMS pyrometer is also a "peak hold" pyrometer and must be used to get accurate and repeatable readings.

Purchase online at <https://www.plastixs.com/product/mtms-kit-melt-temperature-measurement-system/>

For more information email sales@plastixs.com



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What shot sizes will the MTMS Kit work on?

A: The MTMS Kit is designed to measure shot sizes from 1 ounce to 10 pounds. The injection molding machine can be modified to accommodate shot sizes under one ounce. Please contact us for instructions.

What if I forget to lock the ring in place with the flathead cap screw?

A: It may not be a problem. Some materials stick to the purge cup and the ring may stay with the nozzle when retracted, and the purge puck puck stays with the mold. If this happens, the thermocouple probe may be bent or damage.

What sprue radius will the MTMS Kit work on?

A: The MTMS Kit will work on, both, 1/2-inch and 3/4-inch radius.

What can I expect for a arnage?

A: +/-1% for most materials

Why am I getting slightly higher readings compared to other methods?

A: The purge stays molten due to the insulating properties of the purge cup. Also, the wiping action of the flowing material going over the probe eliminates skinning on the probe. With the elimination of the skin, which is an insulator, the maximum temperature is obtained and recorded.

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Frequently Asked Questions:

What if the thermocouple probe tip gets bent?

A: It can be carefully straightened or purchase a replacement on our website.

I'm using it on a large 500-ton press. Can I put an extension on the thermocouple probe?

A: Yes. Use with Type K with mini plugs.

Will the MTMS Kit work on two and three shot presses with top and side barrels?

A: No. We are in the development stages of designing a locating system to work. Contact us for an update.

I'm using it on a large 500-ton press. Can I put an extension on the thermocouple probe?

A: Yes - Type K with mini plugs.

Can the insulated purge cups be reused?

A: No. The insulated purge cups are for one-time use only. Please reorder on our website.

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