Product Data Sheet

TS920
Jet Tech Controller

The TS920 is a smart controller for the TS9200D Jet Tech valve. It is designed with a powerful single board computer and LCD display. Dispensing parameters needed to control the TS9200D Jet Tech valve can be easily set from the front panel keys.

Recipes - six independent dispensing recipes can be programmed using the front panel keys or using the Jet Tech Software and downloaded into memory. Once programmed, the Jet valve can be triggered manually, from a host robot, or from a PC using the RS-232 interface.

Fluid Management – timing parameters including Refill and Dwell times can be adjusted with 0.1msec resolution allowing precise control of the dispensing process. A wide range of drop sizes and drop rates can be set to allow flexibility when optimizing the process window. Additionally, time sensitive, first drop compensation is included providing extra control when dispensing thixotropic fluids. Pressure regulators and digital pressure gauges provide accurate control of the jet and fluid pressures.

Dual Trigger Mode – Single drops, multiple drops and lines can be programmed. When set in Pulse Mode, a pre-programmed number of drops will be dispensed. When set to Level Mode, the Jet valve will continuously fire allowing lines to be dispensed.

Thermal Management - The advanced electronic drivers provide power when needed and reduce power when the jet is idle to keep the jet running cool even during continuous operation. The PID auto-tuned temperature controller with an RTD sensor maintains the nozzle heater at a uniform temperature. A programmable heater timer automatically shuts off the heater when the jet is idle reducing the risk of curing heat sensitive materials.

OEM Configurations – For users who want to integrate the capabilities of the TS9200D into their own products, a custom OEM kit can be provided. The required components to interface to a PLC or custom control system can be provided.

Jet Tech Software – The Jet Tech software adds significant capability to program, name and save the program recipes. The recipes can be run directly from the PC via RS-232 or downloaded into the TS920 controller. Additional features include a Drop Count Log and Help screen.

JET VALVE SYSTEM SPECIFICATIONS

Size Metric (WxDxH):	254mm x 323.3mm x 152.4mm
Size Imperial (WxDxH):	10.00" x 12.73" x 6"
Weight :	3200g (7.05lb)
Speed:	Up to 300Hz Continuous Duty
Refill Time:	0.1ms resolution
Dwell Time:	0.1ms resolution
Number of Drops:	1 to 1 Million Programmable
Recipes:	6 Independent, Manual or Remote
Nozzle Heater:	Heating to 70°C, PID Control, Auto- -tuning, Programmable shut off timer 2 alarms for process control
First Drop Compensation:	2 levels with program. time interval
Controller Interface:	RS-232 & LCD Display with Keypad
Input/Output:	TTL Level Triggers
Operating Temperature:	10 to 50°C
Input Power:	100, 115, 230 VAC

JET TECH SOFTWARE

Dimensions are in inches [mm]

12.73 [323.3]

10.00 [254]

6.00 [152.4]
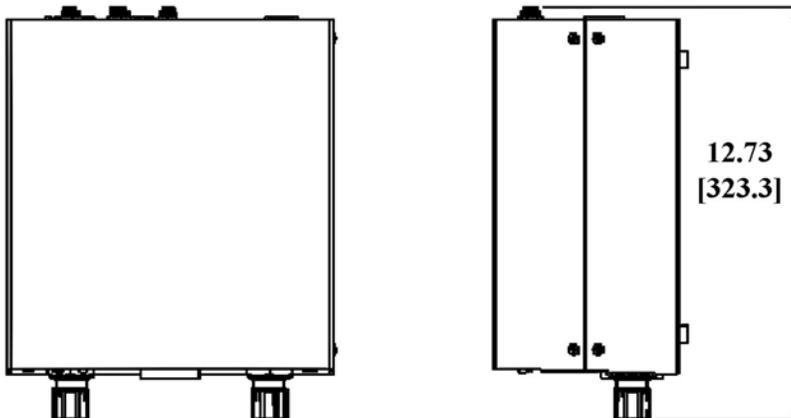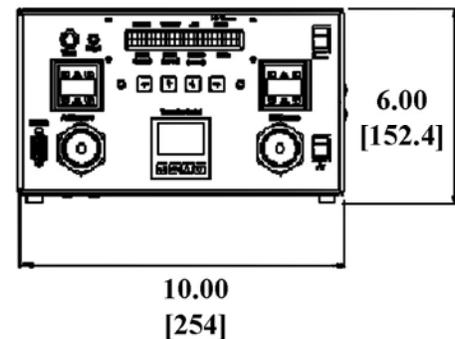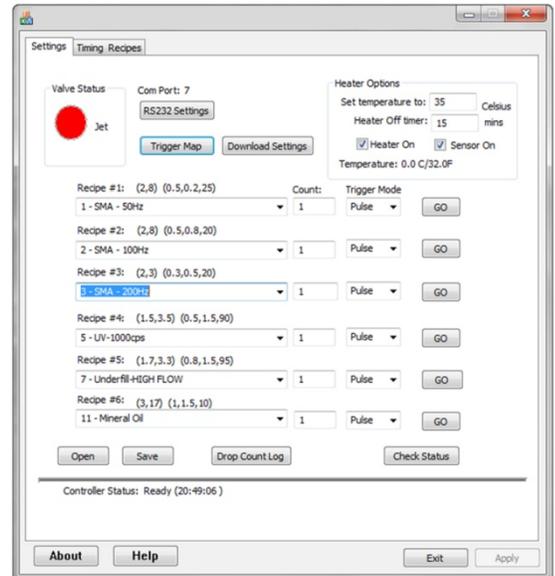
PART NUMBER ORDERING

VALVE PART NUMBERS:
TS9200D-125E   Jet Valve EPDM Diaphragm, 125µm Nozzle
TS9200D-150E   Jet Valve EPDM Diaphragm, 150µm Nozzle
TS9200D-200E   Jet Valve EPDM Diaphragm, 200µm Nozzle

TS9200D-125S   Jet Valve Silicone Diaphragm, 125µm Nozzle
TS9200D-150S   Jet Valve Silicone Diaphragm, 150µm Nozzle
TS9200D-200S   Jet Valve Silicone Diaphragm, 200µm Nozzle

CONTROLLER PART NUMBER:
TS920   DIAPHRAGM JET CONTROLLER

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