STELLAR TECHNOLOGY ISO 9001/AS9100

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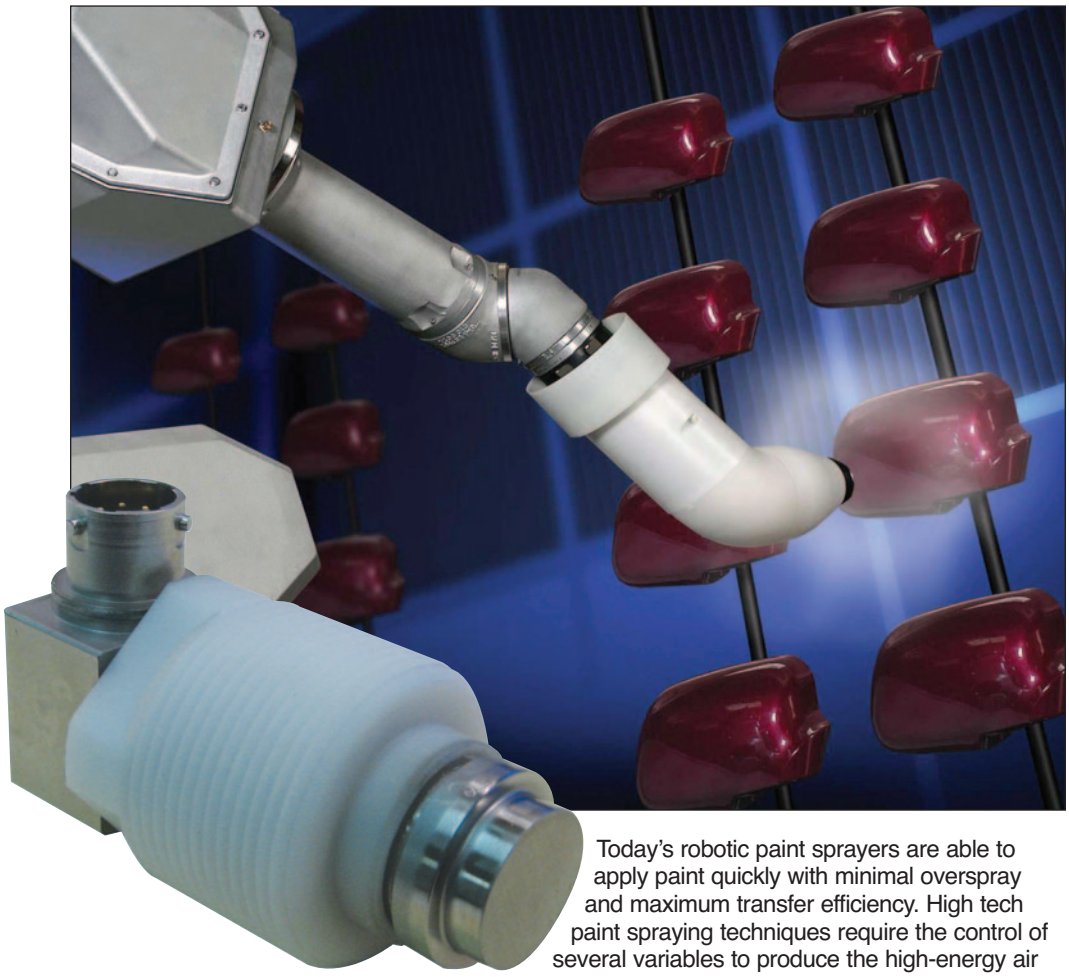
A US Manufacturer of: Pressure, Temperature, Load/Force/Torque, and Displacement Sensors

Product HiLites

Pressure Sensor

Is Critical Component in Robotic Paint Sprayer



Today's robotic paint sprayers are able to apply paint quickly with minimal overspray and maximum transfer efficiency. High tech paint spraying techniques require the control of several variables to produce the high-energy air stream which atomizes the paint and provides a finish free of streaks, runs, and drips on everything from refrigerators to fenders.

Realizing that consistent and correct air pressure is critical to producing the best results, a manufacturer of robotic paint sprayers challenged STI engineers with figuring out how to monitor and control the pressure of the robot's paint line. STI engineers came up with a custom sensor solution: A miniature Series FT1150 pressure transducer with 0.5" flush diaphragm that prevents line clogging, facilitates cleaning, and meets the special space constraints. Additionally, a unique right angle electrical receptacle was designed to shorten the case length and a zero pot was incorporated in the electrical housing for easy access after installation.

This unit provides a static accuracy of ±0.50% (BFSL) over the 1,000 psi range with a low ±0.030% thermal error. The FT1150 sensor has an output of 4-20 mA, is shock and vibration resistant, has a 2x proof pressure, and is intrinsically safe rated.

This is another fine example of a standard product being customized by STI Engineers to meet a unique application situation.

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