Pulse Radar Sensors with Self-Adjusting and Target Tracking Technology

Automation Products Group's PR Series Pulse Radar Level Sensors offer non-contact level measurement in challenging environmental conditions. Providing the process industry standard output of 4-20 mA, the sensors operate using a frequency burst at 6.3 GHz. Pulse Radar sensors provide a detection range up to 100 ft. (30m), resolution to 0.22 in. (5.7mm) and accuracy to ¼ percent of maximum range. The standard operating temperature range is -40°C to 140°F (-40°C to 60°C), with higher temperature ranges available. These sensors will operate over long distances even with target materials that have moderately low dielectric constants. The sensor automatically adjusts the transmit power and receiver gain to optimize the return signal to a level that delivers accurate readings, and is not affected by any interference. The sensor is designed to overcome potential build-up on the antenna, and avoids obstacles that may be installed near the detection path. They also offer reliable operation in metal stilling wells. Programmable software allows users to mask unwanted echoes and adjustable damping factors. Powerful electromagnetic waves also enable Pulse Radar sensors to operate in vacuum environments, as well as applications with rapid temperature changes, high temperatures and high acoustical noise, and those with long

measuring ranges.

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