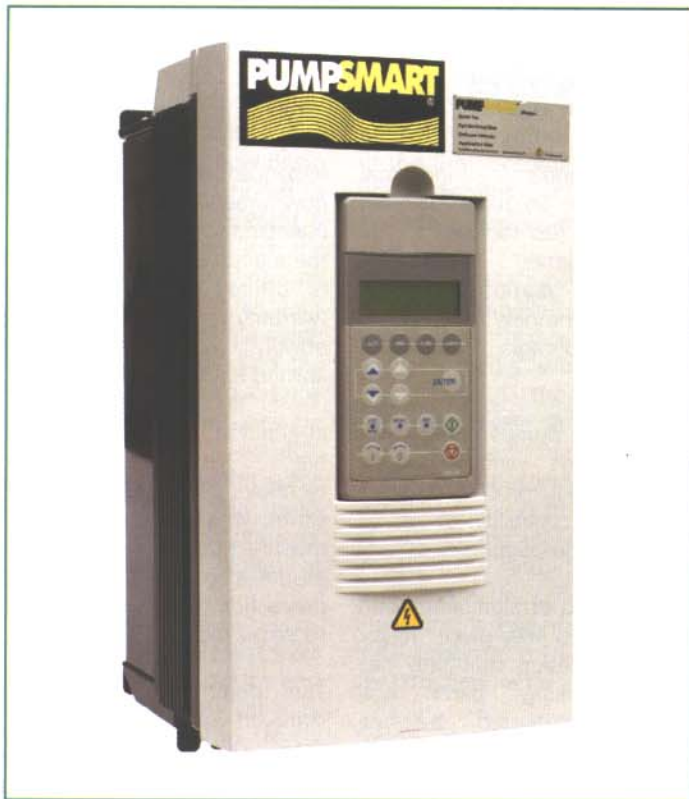


## Pump control and protection device for the wastewater industry



The microprocessor-based Model 200 Version 4.0 variable speed drive, from ITT Industries' PumpSmart Control Solutions division, can control centrifugal pumps with power ratings up to 700 hp (522 kW).

The PumpSmart Model 200 Version 4.0, from ITT Industries' PumpSmart Control Solutions division, is a microprocessor-based variable speed drive, programmed specifically for water and wastewater centrifugal pumps with power ratings of up to 700 hp (522 kW).

As with other products in the PumpSmart line-up, the Model 200 Version 4.0 matches the pump speed to process demands, offering end users the potential for energy savings. The manufacturers also assert that the integrated electronic and control systems on the drive unit can monitor the condition of the pump and predict

wear and tear issues, potentially offering savings in the maintenance budget of end users.

New features on the latest PS 200 Version 4.0 include a patent pending Torque Pump Protect (TPP) feature that the manufacturers claim provides pump protection without the need for external sensors. The TPP system is an algorithm that monitors pump loads to determine conditions of operation such as running below minimum flow, dry running and run out conditions. TPP software has the ability to compensate for speed changes, and for mechanical losses that are common on smaller pumps with mechanical seals. It is also capable of being used on all operating macros, including speed control and multi-pump processes controlling up to four pumps at a time.

In addition, the new MultiVariable Control (MVC) feature is a ratio controller tool that allows a set point to be manipulated by three ranges of a second process transmitter. According to the manufacturers, this feature is ideal for advanced temperature control, blending applications or to help protect against pump cavitation caused by varying suction conditions. The MVC feature also eliminates the need for a PLC or DCS system.