

# KEEP OPERATIONS FROM GRINDING TO A HALT

## Powertec

Powertec, based in Rock Hill, South Carolina, is a leading manufacturer of large brushless DC motors and controllers. Powertec motors and controllers are used in a wide range of industrial applications such as robotics and conveyor belts.



## Keep Machines Up and Running

Powertec motors are designed for variable speed operation and can operate at full torque, even at very slow speeds. To accomplish this, the controllers must be precisely programmed. Large operations can grind to a halt when a single motor needs to be replaced or reprogrammed. Certain applications, such as conveyor belt drives in coal mines, the hostile environment adds another stringent requirement. To improve efficiencies and to gain a competitive advantage, Powertec set the following goals for their next generation products:

- ✓ Reduce time and effort required to program the controllers for each type of motor in use
- ✓ Reduce costs associated with the need for a separate controller for each motor
- ✓ Reduce effort needed to reprogram controllers after a power interruption
- ✓ Increase customer convenience

### The Solution is Key

Powertec contacted Datakey Electronics after considering and rejecting various other devices. Kelly Carter, Powertec Senior Design Engineer said, "The Key is a neat little package that does the job and is easily transportable. Besides, we felt it gave us a significant



marketing advantage. We can package a key with every motor we ship and say 'it's the key to our customer's future.' The Powertec application uses two types of electronic memory Keys—one Key contains all the information about each motor (including its size, type, amount of power, etc). These Keys are packaged with the Powertec motors and are inserted to start up daily operations. The other Key holds information about the specific control operations of the customer's application—which can be especially useful in keeping customers up and running even when recovering from power failure or equipment changes. "All the customer needs to do is plug in the Key and go," says Carter, who notes that using the Key makes setup for motors and controllers very simple.

### Fully-Engineered



The KC4210PCB Keyceptacle® was designed into the Powertec motor to provide a port for data transmission from the motor to the Key. The

Key is programmed using a standard Datakey Electronics' Reader/Writer.





## **T**hey Chose Datakey Electronics

Powertec turned to Datakey Electronics because of their proven track record in the rugged, portable memory industry. The implementation of this standard catalog product from Datakey Electronics gave Powertec an easy way to add benefits to their customers while also giving them a significant marketing advantage. In addition to being easy-to-use, it put money back into their budget by not using more costly options.



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