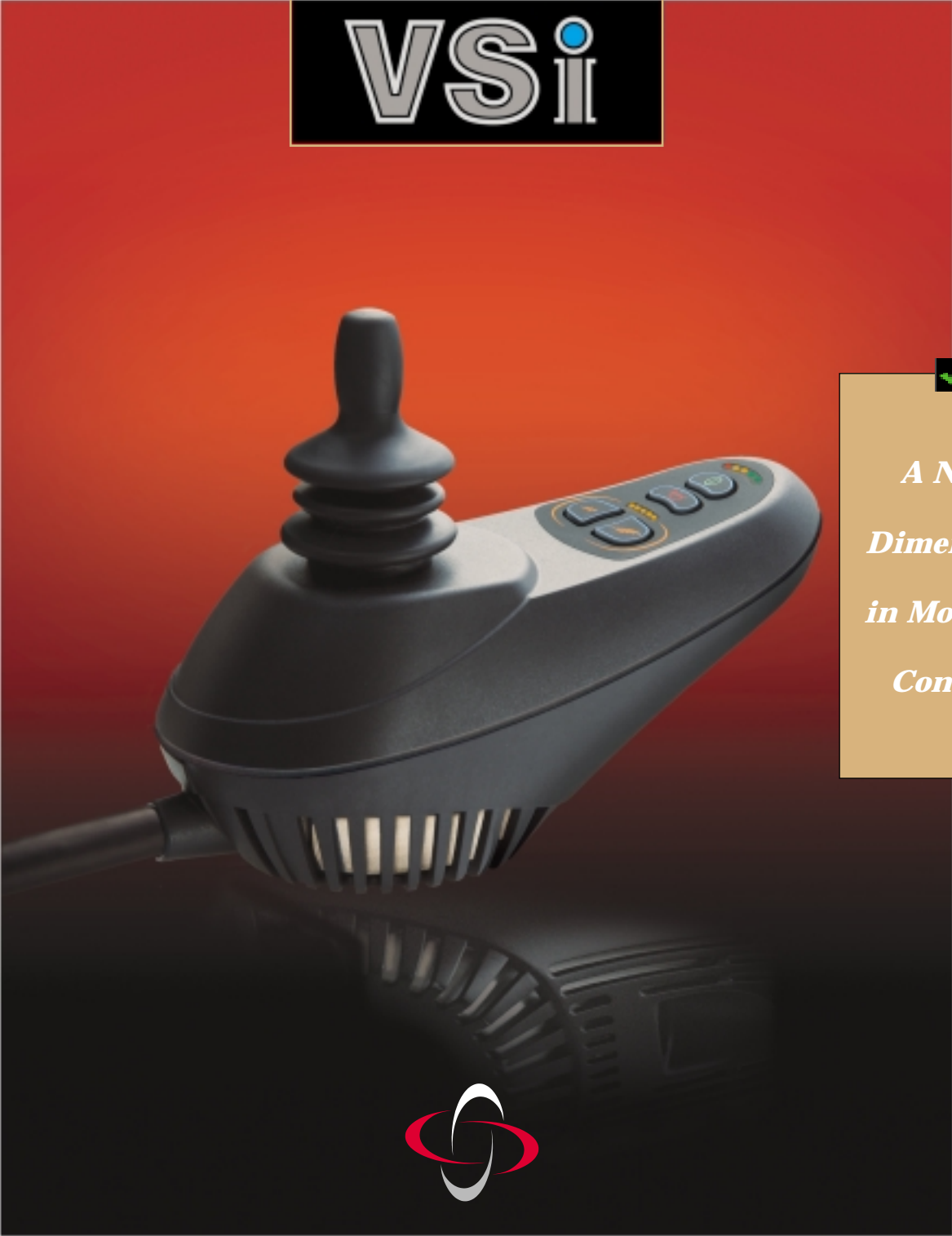


THE NEW

VSi



*A New
Dimension
in Mobility
Control*



PG DRIVES TECHNOLOGY

The World's Smallest Integral Wheelchair Controller



- ✓ *Compact design*
- ✓ *50A power rating*
- ✓ *High definition LED display*
- ✓ *Industry standard connections*
- ✓ *Flexible cable, for easy routing*
- ✓ *Designed for ease of installation*
- ✓ *Integrated heat shield*
- ✓ *Improved drive control*
- ✓ *Advanced service functions*
- ✓ *Live diagnostic functions*



THE NEW

VSii



PG DRIVES TECHNOLOGY

Compact Design with No Compromise on Power or Reliability



Robust Design

The reduced footprint makes the newVSI less prone to impact damage, thus reducing warranty and service costs. Further improvements have been made to improve the reliability of the newVSI. Areas prone to wear and tear such as the keypad have been improved by using a more robust material, making the newVSI less susceptible to damage by the user.

The power cable exits horizontally from the base of the newVSI, aiding routing and allowing the cable to be neatly secured to the arm of the wheelchair. This helps prevent the cable becoming damaged, which is another major warranty and service concern.

PGDT have used advanced design and manufacturing techniques to make the speed and Trucharge display highly visible. The high definition LED displays are particularly noticeable when the wheelchair is being driven outdoors in bright sunlight.



Integrated Heat Shield

The electronic components that make up the newVSI generate heat. The heat is dissipated through a mass of metal called a heatsink. In previous generations of integral controllers the heatsink was an exposed part. With the newVSI the heat-sink is entirely enclosed by a plastic case. When the controller is mounted on the chair, the wheelchair user cannot come into direct contact with any metal parts.

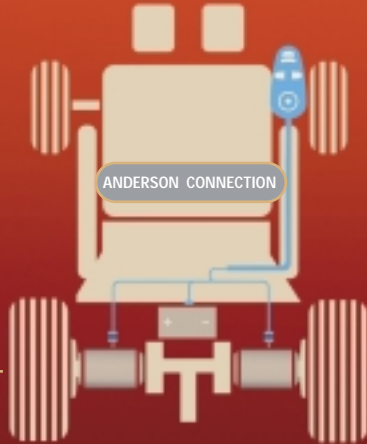
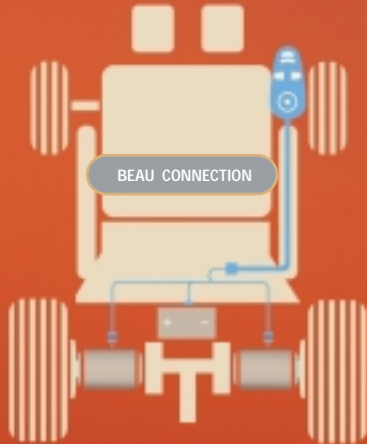
The newVSI controller is the ideal choice for wheelchairs that require a standard drive only configuration. This is especially true where space is at a premium, such as on folding wheelchair applications. The newVSI has been designed specifically to meet this market.

The newVSI's reduced size allows the wheelchair manufacturer a real alternative to remote systems without compromising on the overall look of the wheelchair. The reduced overall size is achieved without compromising power, drive performance or reliability. The newVSI offers all the durability and functionality the wheelchair manufacturer and user has come to expect from the market leader in controllers for the mobility market.



The Small, Versatile Control System

Simple Installation - Standard Configurations



Configurations

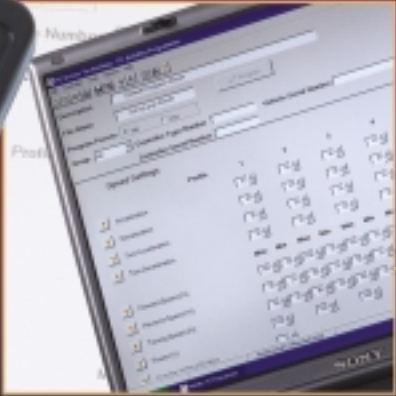
The newVSI is supplied with industry standard cable options, with either Beau or Anderson connections to the battery and motors. This enables an easy transition from older generations of VSI, or for using the newVSI on a new application.

The thin power cable makes installing and routing as simple as possible.



Enhanced Drive Control

The newVSI drive control algorithm has been enhanced to offer the smooth drive feel the customer has come to expect from the world's leading wheelchair controller manufacturer. The performance of the newVSI is comparable to our other market leading wheelchair controllers.



THE NEW

VSi

Service Reminder and Advanced Programming



Service Reminder

The newVSI includes advanced service information, which can be programmed to indicate to the user when a service call is required. Setting the service reminder allows the wheelchair provider to offer an improved overall service with a more reliable product to the wheelchair user. Using the service reminder, the wheelchair provider can set up a program of preventive maintenance, saving money and time on unscheduled service calls.

The service reminder is triggered by the actual amount of time a particular wheelchair has been driven. This enables customisation of the service requirement of an individual wheelchair user. For example, if the wheelchair user is particularly active within a harsh 'out of doors' environment, the provider can make an estimation of when the batteries may need checking or replacing. This function allows the dealer to maintain a service log for a particular wheelchair. The type of information available for an individual wheelchair includes, total drive time, numbers of services and number of hours of driving between services.



Diagnostics

The DTT (Diagnostic Test Tool) allows the provider or service person access to live diagnostic and programming information as well as real time controller, motor and battery data. Useful details such as controller temperature, battery voltage and motor current allows the service person to quickly analyse the key performance indicators of the wheelchair.



Programming & Upgrading

Pre-existing VSI program files can be read from an existing controller via the PC programmer and then written to the newVSI, This aids an easy transition from the older generations of VSI to the newVSI.

General Specifications

Operating Voltage	16-35V
Drive Current	50A
Overvoltage Trip	35V
Undervoltage Trip	13.5V
Reverse Battery Protection	40V
Operating Temperature	-25°C to 50°C
Storage Temperature	-40°C to 65°C
Brake Current	1A max. per brake
Battery Charging Current	12A RMS max.
Charger Connector	Use Neutrik NC3MX
Moisture Resistance	IPX4
Safety	Multiple hardware and software strategy Designed to ISO7176:2008.
EMC on Sample Powerchair	
Susceptibility	Tested at 30V/m to EN12184 and ANSI/RESNA requirements
Emissions	To EN55022 class B
ESD	IEC801

For further details refer to the newVSI technical manual SK80151

Dimensions





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SK80153/09/10



THE NEW

VSi



To match our world class product range PG Drives Technology offers worldwide customer support and training.

Accredited training and repairs throughout the world.

eWarranty scheme
24 hour customer application support
PGDT customer training.

SERVICE

eWarranty
Line Failure Agreement
GOALS Training Program
24 hour Customer Support



PG DRIVES TECHNOLOGY

Driving Innovations for a Better Quality of Life