

POWERKEY PRO 2400



DESIGN YOUR OWN
PROTOTYPE ONLINE



CANopen
J1939



FLEXIBLE - SMART - RUGGED

PowerKey PRO 2400 is an evolution of the PowerKey PRO 2200, boasting large, well-spaced buttons that allow for a reliable pressure sensation even when wearing work gloves. It can be installed outside the driver's cab, on vehicles or vessels where it is necessary to include more than four commands (up to a maximum of eight). Thanks to its IP67 input protection level, it is weather resistant and continues to function even in extreme environments.

Keypads in the PRO series are the only ones currently on the market that boast keys with removable inserts. The symbol on each PowerKey PRO 2400 key is laser-printed on a 24 mm insert (compatible with PKP 2200) that can easily be removed and substituted without needing to take apart the rest of the keypad or cockpit. The use of open protocols makes keypads in the PRO series perfect for both automotive and nautical markets.

SOFTWARE FEATURES

CAN and RS485 Keypad Addresses – Assign any valid CAN (J1939) address to the keypad while also assigning the same or a different RS485 address. Communicate on either BUS simultaneously.

J1939 Address Claim Transmission – Keypads no longer have to be pre-programmed to a specific address. This enables customers that work in applications in the field without access to a GUI to use any replacement keypad on-hand. The keypad can be configured to automatically announce its address and accept a new address assignment as appropriate.

Event Status Transmission – The keypad can send messages to the BUS indicating a button press or a button release event has occurred. This confirmation allows digital systems to have the same input acknowledgements as that of the latching position of a mechanical switch.

Periodic Status Transmission – The keypad sends a continuous broadcast of messages indicating the press or release status of each button at that instance. The frequency of these messages but can be adjusted in a wide range.

Online Set-up – An online set-up system makes it possible to select and design your own prototype, then order it directly on blinkmarine.com

Periodic Heartbeat – The keypad sends a continuous broadcast of messages indicating it is functioning correctly. The frequency of these messages but can be adjusted in a wide range.

CANopen Communications Protocol – Fully compliant with Device Profile 401d.

HARDWARE FEATURES

IP67/NEMA6 rating – Guaranteed to be dust tight and sealed against water immersion to a depth of 1 meter for up to 1 hour.

UV Protected – UVB 400 hours: Keypad is highly resistant to deterioration caused by exposure to sunlight.

Customizable inserts – The replacement system for individual inserts makes modifying the keypad layout simpler and more economical. Hundreds of different pre-existing keys can be viewed at blinkmarine.com, and it is possible to order customized inserts.



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Icons shown on this keypad are for visual demonstration only.

STANDARD FEATURES

- Reconfigurable keys
- Relegendable buttons
- LED state & status configurable
- Vertical or horizontal mount
- Flush or front mount
- LED backlit icons
- Multicolor indicator rings
- Overlay
- Laser etch
- Pad print
- ON/OFF, momentary, toggle & scroll
- Hundreds of stock icons to choose from

SOFTWARE FEATURES

- Change CAN or RS485 keypad addresses independently
- Periodic status transmission
- Heartbeat
- Event status transmission
- LED acknowledgement
- Address claim transmission
- RS485, CANopen, J1939

OTHER BENEFITS

- Programmer's manual available to help support plug-and-play reconfigurability
- Available in fixed legends

SPECIFICATIONS FOR STANDARD KEYPADS

ELECTRICAL

Supply Voltage	12-24Vdc Nominal (8-32VDC)
Standby Current	<50 mA
Communication BUS	RS485, CANopen, J1939

MECHANICAL

Connector	Deutsch DT04-4P, Molex 19418-0004, Micro-C and more
Switch Life	3 million operations
Mechanical Shock	X, Y, Z 50Gs 11ms
Vibration	X, Y, Z 10 - 150Hz 0.15mm amp
Mounting Studs	#10-32 CDA-510 phosphor bronze, electroplated bright tin
Keypad	Silicone rubber with polyurethane hardcoat
PC Board	1,6mm thick, Nema Grade FR-4, double clad with 1oz copper
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Thermal Shock	-40°C to +72°C @ 4°C/Min
Humidity	0 to 98% (no condensation)
UV Protection	UVB 400 hours
Salt Spray	Per ASTM B117
Chemical Resistance	Deet, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner, Orange Citrus Cleaner, Muriatic Acid
Ingress protection Rating	IP67/NEMA6



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