

# POWERKEY PRO 2600



## FLEXIBLE - SMART - RUGGED

Digital Switching Systems' PowerKey Pro 2600 is the most versatile, intelligent and affordable power distribution keypad available for any industry. Continuing the high quality standards and open protocols of its 2400 predecessor, the PowerKey Pro 2600 adds new monitoring capabilities and custom features that are creating innovative applications for ruggedized, low-cost user input devices.

**Independent CAN or RS485 keypad addresses** - You are no longer limited to the number of addresses governed by RS485 standards. By separating out the CAN and RS485 protocols, you now have many more address options.

**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 system's software program automatically recognizes the address that needs to be replaced and adjusts accordingly.



**LED acknowledgement** - When an LED turns on, it sends a message to the load controller acknowledging that it was turned on. This feature is extremely beneficial when integrating with other non-DSS products. It acts as a confirmation that messages have been sent and received and that the system is working correctly.

**Event status transmission** - The system can send messages back to the user acknowledging that a button press or release has occurred. This confirmation allows digital systems to have the same input acknowledgements as that of the latching position of a mechanical switch. This feature can be enabled or disabled.

**Periodic status transmission** - The system sends a continuous broadcast of messages to indicate that the keypad is functioning correctly. Customers can use this feature to easily monitor the heartbeat of the system. This feature is also helpful when troubleshooting a fault that has occurred or to aid in the design and development of a digital system. This feature can also be enabled or disabled.



## STANDARD FEATURES

- Reconfigurable keys
- Relegendable buttons
- LED state & status configurable
- Vertical or horizontal mount
- Flush-mount or front-mount
- LED backlit icons
- Multicolor indicator ring
- ON/OFF, momentary, toggle & scroll
- Over 100 stock icons to choose from

## NEW SOFTWARE FEATURES

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

## NEW HARDWARE FEATURES

- More functions in a smaller footprint
- Smaller inserts
- Easy key location identifier

## OTHER BENEFITS

- New CAN GUI
- New Programmers Manual available to help support plug-and-play reconfigurability
- Improved snap dome positive tactile feedback
- Can accommodate a bezel if required

## INSERT LEGENDS

- Overlay
- Laser Etch
- Pad Print
- Blank
  - Clear insert, Black insert
  - And more

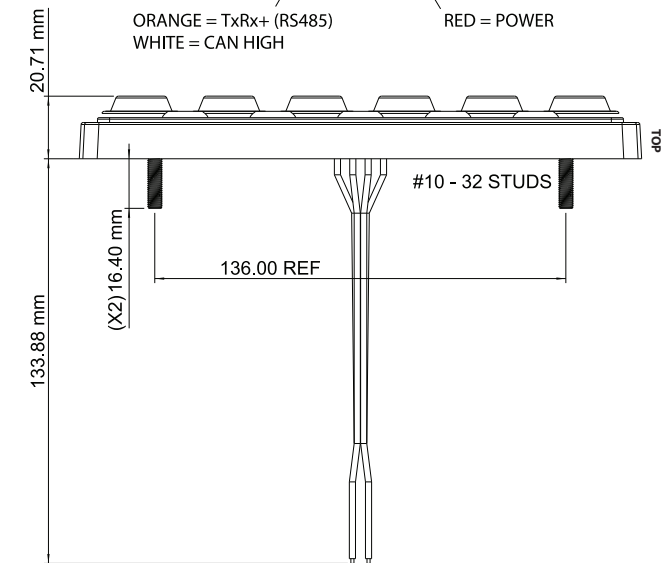
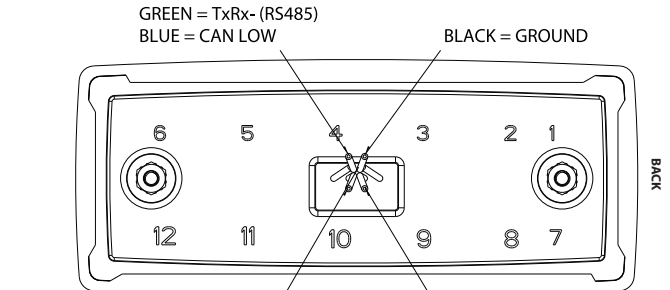
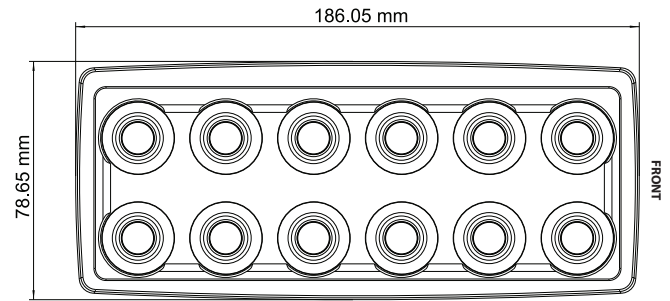
## SPECIFICATIONS FOR STANDARD KEYPADS

### ELECTRICAL

Supply Voltage	12-24Vdc Nominal
Standby Current	~1Amp
Communication BUS	RS485, CAN-Open, J1939/J1939-11, SmartCraft, RVIA/RVC, NMEA 2000 and more

### MECHANICAL

Connector	Deutsch DT04-4P, Molex 19418-0004, Micro-C and more
Mating Connector	
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 CDS-510 phosphor bronze, electroplated bright tin
Keypad	Silicone rubber with polyurethane hardcoat
PC Board	0.062" thick, Nema Grade FR-4, double clad with 1oz copper
PC board conformal coating/epoxy	All components are encased in electronics grade epoxy



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	UBVB 400 hours
Salt Spray	Per ASTM B117
Chemical Resistance	Deet, Engine Cleaner, Isopropyl Alcohol, Suntan Lotion, Multi-Purpose Cleaner, Orange Citrus Cleaner
Ingress protection	IP67/NEMA 6

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