

TD3200 2-Way Radio Remote Control with Color Display

Multi-Function Transceiver for Smooth Operation and Precise Control of Industrial Machinery



Description:

The TD3200 is a robust, next generation radio remote control designed for smooth operation and precise control of industrial machinery. The multi-function radio remote incorporates state-of-the-art design, industry-leading ergonomics and integral two-way communications into a robust and light-weight portable control unit. The TD3200 features a 3.5" transfective color LCD display that provides extensive status monitoring, diagnostic information and controls capability. Two-way communication delivers useful machine status information to the operator via the display's exceptional graphics, readable in day and night conditions for increased productivity.

Its ergonomically superior, lightweight design minimizes operator fatigue and maximizes productivity. Safety features include an operator alert buzzer, drop/tilt/inactivity detection, emergency stop, and redundant signaling on the joysticks.

The radio remote transceiver incorporate OMNEX Trusted Wireless™ FHSS technology to provide superior range and wire-like reliability. The radio remote also accommodates a wide variety of controls including: two and three axis joysticks, paddles, toggle switches and potentiometers.

Other features include durable, weatherproof construction, internal and external long-life battery and waist belt and shoulder harness attachment points.

Product Features:

- Industry-leading, next generation design and functionality
- State-of-the-art, ergonomic design
- Customizable multi-function controller with extensive controls capability
- OMNEX Trusted Wireless™ Frequency Hopping Spread Spectrum Technology
- Superior 2-way communication capability
- 3.5" transfective color LCD display
- Rugged and weatherproof enclosure (IP 67 rating)
- 30-hour battery life
- Waist belt and shoulder harness attachment points

Applications:

- Concrete Boom Pumps
- Skid Steer Track Loaders
- Track Type Machines
- Tunnel Boring Equipment
- Truck Mounted Cranes
- Vacuum Trucks
- Concrete Mixer Trucks
- Load/Haul/Dump
- Chippers and Augers
- Auto Recovery Vehicles
- Rotator Trucks
- Off Road Machines

Specifications	
Wireless Communications	
Transceiver	Internal 2.4GHz or 900MHz options
Communications	OMNEX Trusted Wireless™ FHSS technology with 2-way communications capability
Antenna	Internal antenna
Operating Range, 2.4GHz FHSS	500m (1600 ft.)
Operating Range, 900MHz FHSS	700m (2300 ft.)
Pairing	Radio remote can be paired to receiver by close proximity handshake
Receiver	
Wireless Receiver	Pairs with the OMNEX Trusted Wireless Programmable 20-function CAN Controller (R260), IEC 61131-3 programmable
Expansion	Machine input/outputs can be expanded with CAN I/O devices
Tether Interface	
Communications	Wired communications to Receiver (radio disabled)
Protocol	CAN-Bus
Power	Provides power source when connected to receiver
Charging	Charges internal/external battery when connected to charging cable
Diagnostics	Tether to USB connector cable, configuration/application programming
Protection	Surge protected
Display	
LCD	3.5" transfective color display Viewable in all daylight and nighttime conditions
Resolution	320x240 pixels
Protection	Replaceable polycarbonate scratch resistive protective lens
Custom Features	Splash screen
Graphical User Interface	Customized graphical user interface, status gauges and read-out Visual on-screen alerts and warning messages
Diagnostics	Battery status for internal and external batteries Wireless or tether communications health
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Specifications	
Status LEDs	
Power LED	Unit operating and battery status
Link LED	Wireless or tether communications established
Controls	
Protection	All controls are protected from damage when dropped
Controls reliability	2 million cycles
Joysticks	Up to 2 (max) ¹ 2 or 3 axis, with optional top button and selectable handle styles
Paddles (2 way)	Up to 8 (max) ¹
Potentiometer	Up to 3 (max) ¹
Toggle Switches	Up to 7 (max) ¹ 2 or 3 position, with center off or momentary options (one can be configured as optional power switch)
Soft-Function Keys	8 fixed Soft Function keys along each side of LCD for easy access
Power Button	On/off
Safety	
Drop	Internal automatic detection of drop or fall
Tilt	Tilt detection
Neutral Check	Power up neutral detection for critical controls
E-Stop	Emergency stop switch, latching, turn to reset
Inactivity Detection	Shutdown after a period of no controls activity (configurable)
Ergonomic	Design features protect accidental activation of controls
Audible Alert	
Internal Buzzer, Operator Warning	90dBA @ 1.2m (4 ft.)
Diagnostics	
Event Logging	Internal system event log, via USB
System	Hardware diagnostics available via LCD display
Battery	
Type	Long life Lithium Iron Phosphate
Capacity	10Ah
Expected Operating Time	30 hrs (single battery)
Protection	Protected against over temperature failure
Life Expectancy	5 years, to 80% capacity
Options	Internal battery - non-field serviceable External battery pack - replaceable Continuous operation - both internal and external fitted
Charging	Internal and external battery can be charged via tether connector (12Vdc adaptor, AC wall adaptor) External battery can be charged with optional external charger Charging time via tether connector (to full charge), 2 hrs
Battery Indicators	LED, LCD

Certifications	
EMC	FCC Part 15, Class B CE Compliant CE EN 55022 EMC CE EN 61000 EMC C-Tick, Australia
Wireless	FCC Part 15.247 IC RSS 210 CE EN 300 440 AS4268, Australia
Electrical	UL 60950 EMR SAEJ1113-11 Load dump and start motor voltage dip (when tether connected to vehicle)
General	
Size, Outside Dimensions	292mm x 261mm x 219mm (11.5" x 10.2" x 8.6")
Weight	2.5kg (5.5 lbs) ²
Storage Temperature	-40 to +85°C (-40 to +185°F)
Operating Temperature	-30 to +65°C (-22 to +149°F)
Humidity (Non-condensing)	0 - 95%
Environmental	IP67
Shock	15G for 11ms
Vibration, 24-2000Hz for each of 3 axes	5G/Hz rms
Enclosure	Industrially robust, hardened plastic ABS, chemical resistant
Harness	Provides 2 attachment points for external harness connection
Accessories	
FMEC-3678-01	Harness with safety tear away, four point
FMEC-3678-02	Harness, belt
FMEC-3678-03	Harness with safety tear away, shoulder sling
ACAB-3679-01	Charger tether, 12Vdc Automotive cigarette lighter connector
ACAB-3680-01	Charger tether, AC wall adaptor, 120/240VAC
ACAB-3681-01	Tether cable (CAN), 10m
ACAB-3681-02	Tether cable (CAN), 30m
ASSY-3682-01	External battery
ASSY-3683-01	External battery charger, 12/24Vdc
FMEC-3684-01	LCD Protector, replacement
Note: Specifications subject to change.	
1) Number of controls is dependent on total mix. Contact sales team to confirm count for specific application.	
2) Weight with one battery internal or external.	

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