Product Catalog 2024
REV202409171

tele radio®
wireless solutions

SAFE · SMART · STRONG

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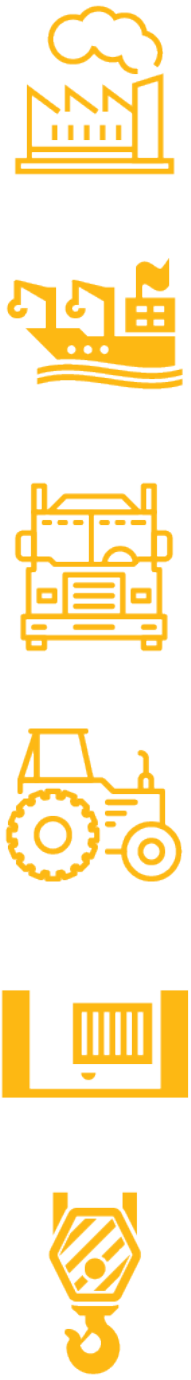
Wireless Control Solutions

At Tele Radio, we offer products that boast some of the highest safety certifications, purpose-built for critical applications and machinery. We meticulously chose premium materials and components combined with cutting-edge technology, ensuring they thrive even in the most challenging environments.

Select systems in our Panther range are CAT3 PLd, and all Tiger G2 and TEQ products are SIL3, PLe certified, featuring two Stop relays monitored by independent safety microprocessors, ensuring redundancy and reliability.

Tele Radio specializes in designing and producing versatile remote controls for various markets and industries.

Our expertise in customizing solutions through specialized programming and hardware modifications enables us to deliver tailor-made products that meet the unique requirements of each customer.



TRANSMITTERS

PANTHER

TIGER

TEQ

RECEIVERS

PANTHER

TIGER

TEQ

PANTHER

Panther operates in the widely accepted 2.4GHz frequency with an estimated operating range of up to 1600ft, line of sight. Transmitters are available from compact pocket-sized versions to larger, robust ones with STOP Switch and CAT3, PLd certification for heavy-duty applications.

PN-T7-* TRANSMITTER(S)

Reference	T7-16, T7-15 & T7-14
Frequency	2,4 GHz 16 channels
Number of Buttons	3 (T7-16), 6 (T7-15) & 8 (T7-14)
Battery	2 x AAA (disposible)
Protection	IP67
Weight	0.15 lb
Dimensions	~ 2 x 3.3 x 0.7 In
Certifications	CE, FCC, IC
Temperature	-4 to 131 °F

PN-T21-* TRANSMITTER(S)

Reference	T21-3, T21-4, T21-6, T21-8 & T21-10
Frequency	2,4 GHz 16 channels
Number of Buttons	3 (T21-3), 4 (T21-4), 6 (T21-6), 8 (T21-8) & 10 (T21-10)
Battery	3 x AAA (disposible)
Protection	IP67
Weight	0.31 lb
Dimensions	~ 2.6 x 4.4 x 1.4 In
Certifications	CE, FCC, IC
Temperature	-4 to 131 °F

PN-T19-2 TRANSMITTER

Reference	T19-2
Frequency	2,4 GHz 16 channels | Field-changeable
Number of Buttons	8 (2-step)
Battery	3 x AAA (disposible) or removable, rechargeable Li-ion
Protection	IP65
Weight	0.73 lb
Dimensions	~ 3.3 x 7.6 x 1.7 In
Certifications	CE, FCC, IC, CAT3 PLd
Temperature	-4 to 131 °F

PN-T29-12 TRANSMITTER

Reference	T29-12
Frequency	2,4 GHz 16 channels | Field-changeable
Number of Buttons	12 (2-step)
Battery	Removable, rechargeable Li-ion
Protection	IP65
Weight	0.88 lb
Dimensions	~ 8.3 x 3 x 1.5 In
Certifications	CE, FCC, IC, CAT3 PLd
Temperature	-4 to 131 °F

Key Switch (optional), To restrict access to the transmitter or limit it alongside the software.

CAT3, PLd certified

RECEIVER(S)

	PN-R8-01 *PN-R8-09	PN-R8-06	PN-R8-10	PN-R8-11	PN-R8-07	PN-R17	PN-R18	PN-R27
Power Supply	12-24V DC	12-24V DC	12-24V DC	12-24V DC	12-24V AC/DC & 48-230VAC	12-24V DC	12-24V DC	12-24V DC
Relays	5	11	5	11	19	0	0	0
Functionality of Relays	Momentary, Latching, Interlocking (programmable)					-	-	-
Transistor Outputs	0	0	0	0	0	4	0	0
Field BUS	-	-	-	-	-	-	J1939-CANopen	RS485 Modbus RTU
Digital Inputs	0	0	0	0	8	0	0	0
Analog Outputs	*2 (0-10V)	0	0	0	0	0	0	0
Frequency	2.4 GHz (Applies to all receivers listed above)							
Number of Channels	16 (Applies to all receivers listed above)							
Antenna Port	Internal	Internal	RP-SMA-Female		Internal	Internal	Internal	Internal
Protection	IP66	IP66	IP66	IP66	IP66	IP65		IP67
Certifications	CE	CE	CE	CE	CE	CE, EMARK	CE, EMARK	CE, FCC, IC
Weight	0.88 lb	0.88 lb	0.88 lb	0.88 lb	1.76 lb	0.44 lb	0.44 lb	0.30 lb
Dimensions	~ 4.7 x 4.6 x 2 In	~ 4.7 x 4.6 x 2 In	~ 4.7 x 4.6 x 2 In	~ 4.7 x 4.6 x 2 In	~ 6.9 x 5 x 3 In	~ 3.8 x 2.1 x 1.5 In	~ 3.8 x 2.1 x 1.5 In	~2.44x1.46In cable 5.9 ft
Temperature	-4 to 131 °F (Applies to all receivers listed above)							

PN-R15-1, PN-R15-2, PN-R15-13, PN-R15-14 RECEIVER(S)

Power Supply	48-230VAC **(R15-1, R15-2)** 12-24V AC/DC **(R15-13, R15-14)**
Relays	4 (R15-1, R15-13), 10 (R15-2, R15-14)
Functionality of Relays	Momentary, Latching, Interlocking (programmable)
Safety Relays	2 independient
Field BUS	N/A
Digital Inputs	N/A
Analog Outputs	N/A
Frequency	2.4 GHz
Number of Channels	16
Antenna Port	Internal PCB Antenna
Protection	IP66
Certifications	CE, CAT3 PLd
Weight	1.10 lb
Dimensions	~ 4.7 x 4.6 x 2 In
Temperature	-4 to 131 °F

PN-R23-01, PN-R23-03 RECEIVER(S)

Power Supply	12-24V AC/DC & 48-230VAC
Relays	10 (R23-01), 15 (R23-03)
Functionality of Relays	Momentary, Latching, Interlocking (programmable)
Number of Safety Relays	2 independient
Field BUS	Available (optional)
Digital Inputs	Available up to 8 (optional)
Analog Outputs	Yes
Frequency	2.4 GHz
Number of Channels	16
Antenna Port	RP-SMA-Female
Protection	IP66
Certifications	CE, FCC, IC, CAT3 PLd
Weight	1.64-2.08 lb
Dimensions	~ 6.9 x 6.3 x 3 In
Temperature	-4 to 131 °F

CAT3, PLd
certified

TIGER G2

TIGER operates in the North America, FCC/IC approved 915 MHz band with frequency hopping technology, whereas full duplex communication allows for feedback via LEDs or on the transmitter screen.

SIL3, PLe certified

TG-T9-11 & TG-T9-12 TRANSMITTER(S)

Reference	T9-11 & T9-12
Frequency	915MHz Frequency Hopping
Number of Buttons	8 (2-step T9-11) & 6 (2-step T9-12)
Battery	Internal rechargeable Li-ion
Protection	IP66
Weight	0.65 lb (T9-11) & 0.71 lb (T9-12)
Dimensions	~ 3 x 6.3 x 1.5 In
Certifications	CE, FCC, IC, SIL3 PLe
Temperature	-4 to 131 °F

TG-T11-15 & TG-T11-14 TRANSMITTER(S)

Reference	T11-15 & T11-14
Frequency	915MHz Frequency Hopping
Number of Buttons	12 (2-step T11-15) & 10 (2-step T11-14)
Battery	Removable, rechargeable Li-ion
Protection	IP65
Weight	0.88 lb
Dimensions	~ 3 x 8.3 x 1.5 In
Certifications	CE, FCC, IC, SIL3 PLe
Temperature	-4 to 131 °F

TG-T15-8 PROPORTIONAL TRANSMITTER

Reference	T15-8
Frequency	915MHz Frequency Hopping
Number of Buttons	8 proportional + 4 (2-step)
Battery	Internal rechargeable Li-ion
Protection	IP66
Weight	1.01 lb
Dimensions	~ 3.1 x 9.6 x 2.2 In
Certifications	CE, FCC, IC, SIL3 PLe
Temperature	-4 to 131 °F

THE SYSTEM

- Certified for Safety Integrity Level 3 (SIL3) and Performance Level e (PLe), suitable for critical applications or those requiring maximum safety.
- Transmitters and Receivers include preprogrammed function modes, each offering different push-button-to-relay mapping, which are further configurable in the field or through custom programming or software.
- By utilizing advanced programming, transmitters and receivers can be tailored to meet specific customer requirements, ensuring safe and precise machine control.
- Transmitter replacement is easy and doesn't require hardware, software or access to the receiver.

RECEIVER(S)

	TG-R4-03	TG-R4-08	TG-R4-38	TG-R4-28	TG-R4-43
Power Supply	12-24V AC/DC, 48-230VAC (Applies to all receivers listed above)				
Relays	7	17	11	7	7
Functionality of Relays	Momentary, Latching, Interlocking (programmable) (Applies to all receivers listed above)				
Number of Safety Relays	2 independient (Applies to all receivers listed above)				
Field BUS	-	-	-	CANopen	J1939
Digital Inputs	2	10	5	2	2
Analog Outputs	0	0	7	0	0
Frequency	915MHz Frequency Band (Applies to all receivers listed above)				
Number of Channels	15 Frequency Banks (Applies to all receivers listed above)				
Antenna Port	RP-SMA-Female (Applies to all receivers listed above)				
Protection	IP66 (Applies to all receivers listed above)				
Certifications	CE, FCC, IC, SIL3 PLe (Applies to all receivers listed above)				
Weight	1.76 lb	2.09 lb	1.76 lb	1.76 lb	1.76 lb
Dimensions	~ 6.9 x 6.3 x 3 In	~ 6.9 x 5 x 3 In	~ 6.9 x 5 x 3 In	~ 6.9 x 5 x 3 In	~ 6.9 x 5 x 3 In
Temperature	-4 to 131 °F (Applies to all receivers listed above)				

RECEIVER(S)
TG-R9-2, TG-R9-7 & TG-R9-12

Power Supply	12-24V AC/DC & 48-230VAC
Relays	12 (R9-2, R9-7), 28 (R9-12)
Functionality of Relays	Momentary, Latching, Interlocking (programmable)
Number of Safety Relays	2 independient
Field BUS	Modbus/TCP, Profibus (R9-7)
Digital Inputs	10
Analog Outputs	0
Frequency	915MHz Frequency Band
Number of Channels	15 Frequency Banks
Antenna Port	RP-SMA-Female
Protection	IP66
Certifications	CE, FCC, IC, SIL3 PLe
Weight	3.97 lb
Dimensions	~ 10.1 x 6.9 x 3.3 In
Temperature	-4 to 131 °F

TEQ

Our “waistband” transmitters feature a variety of joysticks, paddles, combined with toggle switches, push buttons and screens to display essential machine data such as error codes, alarms, volume weight, RPM..., just to name a few.

SIL3, PLe certified

Designed to offer safety, precision and efficiency, allowing the operator to control heavy machinery and equipment, minimizing risk and improving productivity. Optimized, yet fully customizable for use in different industries including but not limited to construction, mining, agriculture, and the forestry industry.

WAIST TRANSMITTER PRIMATEQ TW46

Reference	T12-30, T12-31, T12-37, T12-36, T12-24, T12-35
Frequency	915MHz Frequency Hopping
Control Interfaces	Available in different configurations (paddles, joysticks, toggles, buttons, potentiometers...)
Battery	Removable, rechargeable Li-ion
Protection	IP65
Weight	2.65 lb
Dimensions	~ 8.3 x 5.5 x 5.1 In
Certifications	CE, FCC, IC, G Lloyd, SIL3 PLe
Temperature	-4 to 131 °F
Display	LCD 1.78”

WAIST TRANSMITTER VERSATEQ TW57

Reference	T26-TS02, T26-TS03
Frequency	2,4 GHz 16 channels
Control Interfaces	2x joysticks XY proportional (T26-TS02) 6x proportional paddles (T26-TS03)
Battery	Removable, rechargeable Li-ion
Protection	IP65
Weight	2.09 lb
Dimensions	~ 9.5 x 5.4 x 4.9 In
Certifications	CE, FCC, IC, SIL3 PLe
Temperature	-4 to 131 °F
Display	Full Color 2” Display

WAIST TRANSMITTER SUPRATEQ TW77

Reference	T24-TS01
Frequency	2,4 GHz 16 channels
Control Interfaces	3x joysticks XY proportional 5x toggle switches
Battery	Removable, rechargeable Li-ion
Protection	IP65
Weight	4.41 lb
Dimensions	~ 13 x 5.8 x 7 In
Certifications	CE, FCC, IC, SIL3 PLe
Temperature	-4 to 131 °F
Display	Full Color 2” Display with Buttons

WAIST TRANSMITTER SUPRATEQ TW78

Reference	T28
Frequency	2,4 GHz 16 channels
Control Interfaces	Available in different configurations (paddles, joysticks, toggles, buttons, potentiometers...)
Battery	Removable, rechargeable Li-ion
Protection	IP65
Weight	4.41 lb
Dimensions	~ 13 x 5.8 x 7 In
Certifications	CE, FCC, IC, SIL3 PLe
Temperature	-4 to 131 °F
Display	Full Color 4,3” Display with Buttons

TEQ CUSTOMIZATION OPTIONS

Keyswitch access control

Flexible

Hardware Settings

Control Elements

Faceplate

Certification

RECEIVER R20-RS01

Power Supply	12-24V DC
Relays	Up to 16
Functionality of Relays	Momentary, Latching, Interlocking (programmable)
Number of Safety Relays	2 Independent
Field BUS	Modbus/RTU (with expansion plate), CANopen, J1939
Digital Inputs	Yes
Analog Outputs	Yes
Frequency	2.4 GHz
Number of Channels	16
Antenna Port	RP-SMA-Female
Protection	IP66
Certifications	CE, FCC, IC, SIL3 PLe
Weight	1.76 lb
Dimensions	~ 8.2 x 5.8 x 2.8 In
Temperature	-4 to 131 °F

RECEIVER R21-RS02

Power Supply	12-24V DC
Relays	8 (optional)
Functionality of Relays	Momentary, Latching, Interlocking (programmable)
Number of Safety Relays	2 Independent
Field BUS	CANopen, J1939
Digital Inputs	Yes
Analog Outputs	Yes
Frequency	2.4 GHz
Number of Channels	16
Antenna Port	RP-SMA-Female
Protection	IP66
Certifications	CE, FCC, IC, SIL3 PLe
Weight	1.76 lb
Dimensions	~ 4.7 x 4.6 x 2 In
Temperature	-4 to 131 °F

RECEIVERS AVAILABLE WITH (optional) PIGTAIL CABLE AND/OR BUZZER

CUSTOM FOILS

Customize your transmitter's faceplate to project your company's unique identity and highlight your brand. Choose your colors, logos, icons, and more.

For our Mini and STL model transmitters, we offer various high-quality faceplate options designed to withstand environmental and adverse conditions.

For our Robust model transmitters, we provide face plates made by 3M, using high-grade surgical-quality material. These face plates are designed to endure heavy use, resist fading, and provide durable and reliable protection.

Similarly, we offer customization services for all our waistband transmitters.

Contact us for more information.

ACCESORIES

D4-3

Battery cartridge for 3 AAA batteries
****Only advised for Panther PN-T19-2*

M245060

Li-Ion spare battery pack 3,7V / 1600mAh

M769780

Charger 100-230VAC Multi Power Supply, (6W) 5VDC / 1.2A

M769746

Car charger 12-24VDC with 5V output for lighter

M769755

Battery charging station
****Doesn't include charger M769780*

M830030

Shoulder strap

M830021/M830040

Belt for Waist Transmitters

M151300/M151330

Receiver mounting magnets

D15-10/D15-4

Support with charging option 5VDC (requires charger M769780 or M769746)

NYLON COVER

Nylon protective cover for transmitters

700-006-530-94

Transmitter support magnet

TRUSA-BZR

Buzzer for receiver

700-006-811-97

Foot pedal for T21 transmitter
****Transmitter sold separately*

1/2-2.4G

Antenna for 2.4G receivers

1/2-2.4G-K1/K5

Antenna kit with cable of (K1-1m)/ (K5 - 5m)

1/2-915

Antenna for 915MHz receivers

1/2-915-K1/K5/K10

Antenna kit with cable of (K1-1m)/(K5 - 5m) / (K10-10m)

Why Remote Control?

Wireless remote is a safety and convenience factored system, allowing the control of equipment from a safe distance. One of its obvious benefits is that you do not have to walk back and forth to the machine to operate it. It places the operator exactly where he/she needs to be instead of the constraints of a control panel or wired pendant. A wireless remote/transmitter is also not in the way of the operator like a cable bound system would be. The cable is both impeding for the work and a potential safety or tripping hazard in addition to being more susceptible to damage and wear and tear. To have a cable bound remote repaired in the middle of the workday could be both costly and time consuming, not to mention if it happens outside regular business hours, whereas a remote can be replaced within seconds without requiring access to the receiver, or the need for a certified electrician.

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