



**CERVIS** INC.

# TM70 Series

Console Transmitters



## *THE REMOTE CONTROL FOR MOBILE EQUIPMENT*

- Ergonomic
- Customizable
- Universal Components
- State-Of-The-Art Design
- Dual redundant safety circuit
- CAN Bus architecture supported
- Over 100,000 installed world wide
- Affordable (economies of scale)
- FCC Approved



The TM60 series transmitters and receivers are specifically designed to offer an ergonomic customized solution for any industrial radio control application.

The TM60 customizable transmitters are specifically designed for the wireless control of mobile cranes, material handlers, boom trucks and many other stationary and mobile equipment using proportional valves. The advanced state-of-the-art design includes various easy to use controls in an IP65 rugged console providing the highest level of reliability and safety. Transmitter options like our "Tele-alignment" allow for on board adjustment of proportional outputs allow the operators to fine tune control according to their working style.

With two sizes of console enclosures we can offer a customized, ergonomic and efficient package. Our ability to combine, in any combination, our dual axis proportional joysticks, single axis proportional levers, dual axis "on/off" joysticks along with any combination of toggle and push button switches allows you to get the controls you need in the package you want. Our receivers are also designed with this modularity in mind featuring voltage, PWM and current analog signals as well as standard digital outputs. Our rock solid Radio Frequency (RF) design has allowed us to put over 100,000 systems in the field.



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Console Transmitters



- 1 Equipment ID plaque
- 2 Multipurpose diagnostic LED
- 3 Custom engraved placecard
- 4 CAT3 stop switch
- 5 Rechargeable Battery
- 6 Safety key switch
- 7 Warning/Start switch
- 8 Tele-Alignment proportional adjust switches (customize your speed control output settings)
- 9 Portable EEPROM



### Optional Display

### Charger and Batteries

### Belt and Strap



### Technical Specifications

### Software options:

#### Transmitters

#### Receivers

Frequency:	400 / 900 MHz
RF Power:	10 / 1 mW
Enclosure:	IP65/NEMA 4
Battery:	16 hours of use, 50% duty cycle
Temperature:	-4 to +149° F
Prop. Lever Joysticks:	single axis, 128 step control
Prop. Dual Axis Joysticks:	optical, stepless or detented
Digital Dual Axis Joystick:	mechanical on/off control
Rotary selector switches:	fully variable or up to 24 positions
Toggle/push button switches:	standard variations available
Weight (battery incl.):	4.0 to 4.6 lbs
Diagnostic LED:	TX On, Battery level, Stuck switch, Failure, Tilted TX
Tilt Switch:	Deadman / Transmitter inhibit at 60°
Feedback Display:	Two line digital display

Input Power:	12, 24 VDC or 48, 120, 230 VAC
Dimensions:	13.4 x 10.2 x 4.9" (varies)
Enclosure:	IP55/NEMA 4
Digital Outputs:	9, 18, 26, 34, 42, 50... (8A)
Proportional Outputs:	16+ (expandable) Voltage, PWM, Current
Safety Outputs:	Start + STOP (dual Redundant) + Safety
Inputs:	Customizable
Toggle/push button switches:	standard variations available
Weight (battery incl):	4.0 to 4.6 lbs
Diagnostic LED:	TX On, Battery level, Stuck Switch, Failure, Tilted TX
Tilt Switch:	Deadman / Transmitter inhibit at 60°
RF:	70 Channel Scanner
Safety:	Dual redundant micro-processors (highest degree of safety)

- First Come First Serve (multiple transmitters)
- Catch/Release (TX acquire & lockout)
- TX Receiver select (multiple receivers w/ one TX)
- Tandem control (syncing control of multiple machines)
- IR Range limitation
- Custom requirements available

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