



**CERVIS** INC. Console Transmitters

# TM60 Series

## *THE REMOTE CONTROL FOR OVERHEAD CRANES*

- Ergonomic
- Portable EEPROM
- DC Crane Specialists
- Universal Components
- State-Of-The-Art Design
- Dual redundant safety circuit
- 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 EOT crane and industrial equipment radio control applications.

The TM60 products are manufactured to stringent quality assurance procedures resulting in the highest quality equipment commercially available in the industry. They are clearly one of the safest and most reliable systems available anywhere in the world and offer many advantages. These systems meet the highest level of control directives for safety in the world (EU directives 99/5 and 98/3).

With two sizes of console enclosures we can offer a customized, ergonomic and efficient package. Use of our dual axis optical joysticks allows for control of two motions in one joystick. The dual axis joysticks can be manufactured with up to 5 detents or a step-less feel and have an open or closed gate. Our single axis lever control is proving to be a standard in step-less control as it provides 128 step resolution in each direction, the best control in the industry. Combine joysticks and levers to get a customized package for your application. Our rock solid Radio Frequency (RF) design has allowed us to put over 100,000 systems in the field.

CERVIS is leading the industry when it comes to DC Cranes. We have engineered, manufactured and installed complete DC crane packages in many of the nations largest mills.

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# TM60 Series

Console Transmitters

- 1
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- 4



- 1 Equipment ID plaque
- 2 Multipurpose diagnostic LED
- 3 Custom engraved placard
- 4 CAT3 stop switch
- 5 Rechargeable Battery
- 6 Safety key switch
- 7 Warning/Start switch
- 8 Tele-Alignment proportional adjust switches
- 9 Portable EEPROM



- 5
- 6
- 7



- 5
- 8

### Receiver



### Charger and Batteries



### Belt and Strap



## Technical Specifications

Transmitters		Receivers	
Frequency:	450 MHz	Input Power:	12, 24 VDC or 48, 120, 230 VAC
RF Power:	10 mW	Dimensions:	13.4 x 10.2 x 4.9"
Enclosure:	IP65/NEMA 4	Enclosure:	IP55/NEMA 4
Battery:	16 hours of use, 50% duty cycle	Digital Outputs:	9, 18, 26, 34, 42, 50... (8A)
Temperature:	-4 to +149° F	Analog Outputs:	16+ (expandable) Voltage, PWM, Current
Prop. Lever Joysticks:	single axis, 128 step control	Safety Outputs:	Start + STOP (dual Redundant) + Safety
Prop. Dual Axis Joysticks:	optical, stepless or detented	Inputs:	Customizable
Digital Dual Axis Joystick:	mechanical on/off control	Diagnostic LED:	PWR OK, PCB, OK, ID OK, Data OK
Rotary selector switches:	fully variable or up to 24 positions	RF:	70 Channel Scanner
Toggle / push button switches:	standard variations available	Safety:	Dual redundant micro-processors (highest degree of safety)
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		

### Software options:

- 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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