



LHD



C01LHD Controller with fiberglass enclosure

The Cattron AT16LHD and AT32LHD portable remote control systems provide reliable, efficient and convenient control of LHD equipment. This control system duplicates the manual controls in the cab of the load-haul-dump, allowing the operator to direct the equipment from a safer location.

Joystick Controller Features

- Quick response
- Accurate, secure radio control
- CE, FCC and DOC approved (contact factory for other approvals)
- Microprocessor control
- Extensive self-diagnostics
- Long battery operating life (NiCad rechargeable or alkaline)
- Dustproof, waterproof high impact housings

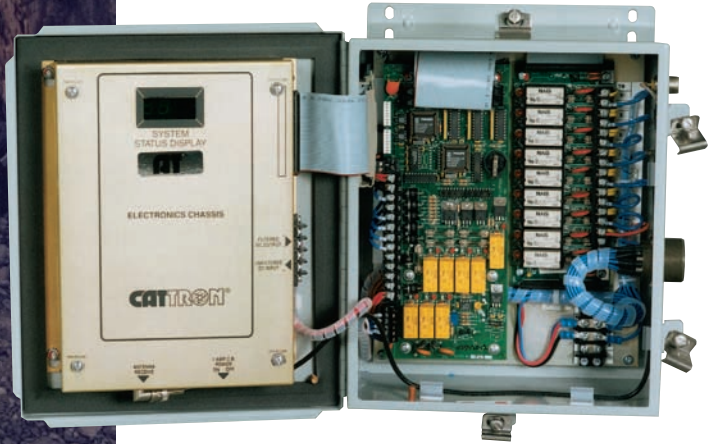
Portable Radio Remote Control For Load-Haul-Dump Vehicles

Receiver/Decoder Features

- Designed to be mounted on high vibration mining machinery
- AT16LHD incorporates 16 independent functions, plus run on/off outputs
- AT32LHD offers up to 5 digital proportional functions, plus up to 7 independent, as well as run
- Systems also available with custom PWM (pulse width modulation) configurations
- Multiple watchdog circuits
- 2-digit system status display (acts as a central test point)
- Automatic Safety Override (ASO) output monitoring
- Addressing and time sharing to permit multiple units to share each radio frequency
- Extremely high message security
- Extensive self diagnostics
- BCH data error
- Auto select 12-24 VDC input power supply
- Compatible with Autodig™
- Optional joystick controller/transmitter styles with fiberglass or aluminum dustproof, waterproof high impact housings



P06C Controller with aluminum enclosure



Controllers (C01LHD, P06C)

Dimensions: C01LHD – 15cmH x 35.5cmW x 9.5cmD (6 x 14 x 3 ¾ inches), weight approx. 5.5 kg (12 lbs.) including battery.

P06C – 15cmH x 34.3cmW x 17cmD (5.9 x 13.5 x 6.7 inches) weight approx. 4.2 kg (9 lbs.) including battery.

Frequency Band: UHF 450 MHz to 470MHz (others available on request).

Standard RF Power Output: 20-40 mW output power (higher power available on request).

Spurious and Harmonic Emissions: More than 33 db below carrier.

Antenna: Internal.

Modulation Digital Frequency: Shift Keying [FSK].

Enclosure: C01LHD – Fiberglass NEMA (4x), P06C – Aluminum.

Receiver/Decoders (AT16LHD and AT32LHD)

Dimensions: Approximately 30.5cmH x 25.5cmW x 15cmD (12 x 10 x 6 inches).

Interface Type: AT16LHD – mechanical relays normally open contacts 8A @250VAC or 5A @ 30VDC maximum.

AT32LHD – proportional, current control with DDEC throttle control interface. Optional custom PWM configurations available.

Environment: Operate from -30°C to +60°C (-25°F to 140°F), with non-condensing relative humidity from 0 to 95%.

Output Termination: AT16LHD – 16 pin connector (military specification), AT32LHD – 24 pin connector (military specification), Optional connector configurations available.

Enclosure: NEMA 4 steel (optional stainless steel or fiberglass) Individual EMI – shielded compartments for sub-chassis receiver, decoder and power supply. Entire sub-chassis mounts on inside door of NEMA 4 enclosure. Relays not in sub-chassis.

Power requirements: 12-24VDC ± 10% @ less than 2 amps, ± 20% @ less than 1 amp (12VDC), 24VDC (2 pin power connector) for both AT16LHD and AT32 LHD.

*Specifications subject to change without notice. Consult the factory for verification.

*Autodig™ is a trademark of Elphinstone™.



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