CATTRON

CATTRON™

LHD

PORTABLE RADIO REMOTE CONTROL FOR LOAD-HAUL-DUMP VEHICLES

MCU

- Designed to be mounted on high vibration mining machinery
- 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 impact housings

JOYSTICK OCU

- 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 impact housings

MODELS

MCU

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

OCU

C01LHD, fiberglass enclosure

P06C, aluminum enclosure

TECHNICAL DATA AND SPECIFICATIONS

CONTROLLERS (C01LHD, P06C)

Dimensions (H x W x D) & Weight	C01LHD 15 x 35.5 x 9.5 cm (6 x 14 x 3 ¾ inches) approx. 5.5 kg (12 lbs.), including battery	P06C 15 x 34.3 x 17 cm (5.9 x 13.5 x 6.7 inches) approx. 4.2 kg (9 lbs.), including battery
Operating Band	UHF 450–470 MHz (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 (H x W x D)	Approx. 30.5 x 25.5 x 15cm (12 x 10 x 6 inches)	
Interface Type	AT16LHD Mechanical relays normally open contacts 8A @250VAC or 5A @ 30VDC maximum	T32LHD Proportional, current control with DDEC throttle control interface. Optional custom PWM configurations available
Environment	Operate from -30° to +60 °C (-25° 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	12-24 VDC ± 10% @ less than 2 amps, ± 20% @ less than 1 amp (12 VDC) 24 VDC 2-pin power connector for both AT16LHD and AT32 LHD	

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