

The FRD-1201U is a rugged radio remote control system designed for use in industrial applications such as telescopic boom cranes and lifts, concrete boom pumps, boom trucks, construction equipment, tower and knuckle-boom cranes, conveyors and much more. The transmitter provides medium to long range remote control of 12 internal receiver relays (plus a main-line relay). Both transmitter and receiver utilize state-of-the-art surface mount component technology to minimize size. The transmitter incorporates advanced power saving features for extended battery life. Channel Watch® search and select technology, a 16-bit identification code, and 40 synthesized channels, give the system superior reliability and immunity to false activation from RF interference. This also allows multiple FRD systems to be operated independently in the same area.

The transmitter has an injection molded case of high impact material, gasket seals for durability and water resistance, an internal antenna, and toggle switches that are double sealed with o-rings and a durable rubber boot, making it ideal for use in harsh industrial environments. The receiver is packaged in a compact, rugged aluminum case allowing it to be mounted in enclosures and other areas where space is at a premium.

General Specifications

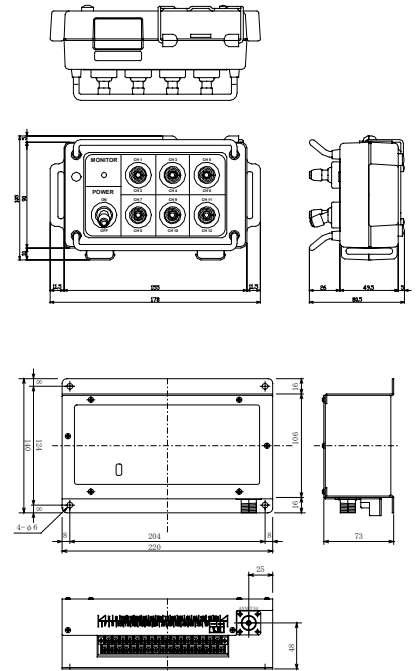
Frequency:	429.25 to 429.7375 Mhz
Frequency Control:	Crystal controlled PLL Synthesizer
Response Time:	130 ms average
Operating Temperature:	-10° C to +50° C
Storage Temperature:	-20° C to +60° C
Humidity:	Up to 90% RH, non-condensing

Transmitter Specifications

Power Source:	4 "AA" Alkaline batteries (6 VDC, NiCad batteries may be used, operating time will be reduced)
Power Consumption:	60 mA (when sending commands)
Battery Life:	25 hrs minimum, continuous use (alkaline cells)
Antenna:	Internal
Case:	Plastic molded dust proof / splash proof
Dimensions:	4.13 x 7.00 x 3.17 in.
Weight:	1.6 lbs. (with batteries installed)

Receiver Specifications

Outputs:	SPST N.O. relays, 12 channels plus main relay
Relay Ratings:	Resistive Load: 5A @ 31 VDC / 120 VAC
Inductive Load:	2A @ 31 VDC / 120 VAC
Antenna:	External whip antenna, 125 mm length
Power Source:	External +12VDC or +24VDC (Will operate from 9 to 31 VDC)
Case:	Structural foam molded - NEMA 4 Rated
Dimensions:	8.66 x 5.57 x 2.87 in.
Weight:	2 lbs.



Applications

- Telescopic Boom Cranes
- Lifts
- Construction Equipment

