

Colvern



Sealed Wirewound

Series CLR1200; 1500; 4200; 4500

Features

- Linear or non-linear laws available.
- CLR 1200/4200**
- Sealed, general purpose panel controls.
- Phenolic body moulding; beryllium copper contact; nickel plated brass spindle and bush.
- Humidity proof construction.
- CLR 1200 has end connections and terminals cemented to body.
- Two gang (CLR 1200), and up to four gang (CLR 4200) units available.
- CLR 1500/4500**
- Container sealed panel controls with spindle and panel seals.
- Aluminium case and bushing; nickel plated brass lid; anodized aluminium alloy spindle; silver plate brass tags insulated from lid by ceramic standoffs.

Electrical Specification

Standard Resistance Range

CLR	1200	1500	4200	4500
50R	LL	LL	LL	LL
100R	*	*	*	*
250R	*	*	*	*
500R	*	*	*	*
1K0	*	*	*	*
2K0	*	*	*	*
2K5	*	*	*	*
5K0	*	*	*	*
10K	*	*	*	*
20K	*	*	*	*
25K	UL	UL	*	*
50K			*	*
100K			UL	UL

* = Preferred value

LL = Lowest value

UL = Highest value

Non-Preferred values are charged at a premium, please consult factory for details. Highest value varies from above for non-linear laws.

	CLR 1200	CLR 1500	CLR 4200	CLR 4500
* Power rating @ 70°C	0.5W	0.5W	1W	2.5 W
Linear law				
Angle of effective rotation	265° ± 15°	265° ± 15°	275° ± 5°	270° ± 5°
Limiting element voltage d.c. or a.c. r.m.s.	250V	250V	400V	500V

* For ganged units the front section must be derated to 75%, the rear section to 50% and the middle section(s) to 40% of the above ratings. Uprate all ratings by 100% for operation at 20°C.

Selection Tolerance

± 10%

Terminal Resistance

Maximum of 0.2Ω or 0.01% of nominal resistance whichever is the greater.

Rotational Noise

100µ E.N.R. maximum

Temperature Characteristic of Resistance

± 0.75% (+20°C to +70°C)

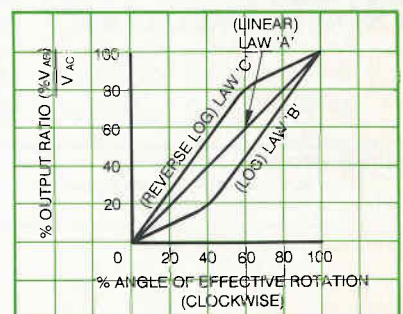
Insulation Resistance

1000MΩ minimum at 100V d.c. (CLR 1200/1500); at 500V d.c. (CLR 4200/4500)

Isolation Voltage

360V a.c. peak (CLR 1200/1500); 1000V a.c. peak (CLR 4200/4500)

Standard Resistance Laws



Linearity

1% typical, 2% maximum

Alignment (Ganged Units)

Sections are aligned to within ± 1% at reference point of 50% effective rotation (CLR 1200) and zero effective rotation (CLR 4200)