



RPR-2P REPEATING PULSE RELAY

The RPR-2P repeating pulse relay is designed to provide two isolated “dry”, mercury-wetted form “C” (K, Y, & Z) contacts from a single form “C” input over a wide voltage range. The RPR-2P relay is identical to the RPR-2 with the exception that the RPR-2P has a built-in low voltage transformer isolated power supply. The sense voltage (Kin) to the data sending circuit (typically a meter) is 13 VDC instead of the higher line voltage used in the RPR-2 relay.

The RPR-2P may be used with meters having mechanical output contacts (relays), or high or low voltage semiconductor outputs. Typical applications include interfaces between utility metering devices and customer-owned energy control systems, demand recorder applications, and supervisory control systems (SCADA) interfaces. The RPR-2P relay is designed to retain the last valid input status upon loss of the system’s power thereby preventing false outputs from occurring. An incorrect sequence of input pulses is detected and only the first valid pulse will result in an output.

Bright red and green LED lamps indicate the system’s status at all times thus allowing a rapid check of the system’s performance without requiring any additional test equipment. The RPR-2P’s input and output circuit’s terminal strip is a “EURO” type connector strip. When the stripped wire has been correctly installed in the terminals “slot” no conductive parts are exposed on the surface of the terminal strip, thus allowing the user maximum protection from accidental electrical shock. Each “K” lead of the RPR-2P’s outputs is fused to prevent damage to the relays under almost any conditions a user might cause such as excessive current, incorrect wiring, etc.

The RPR-2P has built-in transient protection for the mercury wetted relays contacts which eliminates the need for external or off-the-board transient suppressors. All component parts which have power applied to them, with the exception of the input/output terminal strip are enclosed in a polycarbonate cover for maximum protection.



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RPR-2P SPECIFICATIONS

ELECTRICAL

Power Input: 90 to 325 VAC. Burden: 10 MA. at 120 VAC

Output: Two sets of “dry” form “C” contacts (K, Y, & Z) for energy pulses. The contacts are mercury wetted “no bounce” relays rated at 500 VDC or 350 VAC 2 Amps. break, 5 amps carry. The maximum rating of the contacts is 100 VA. Factory fused at 1/2 amp. (3AG)

Contact Resistance: 50 milliohms maximum, 12 to 14 typical

Insulation Resistance: 50 megohms typical

Operate and Release Time: 4 to 8 milliseconds typical

MECHANICAL

Mounting: Within 30 degrees of vertical

Size: 3.27 inches wide, 5.65 inches high, 1.50 inches deep

Weight: 12 ounces

TEMPERATURE

Temperature Range: -38° C to +70° C, -36.4° F to +158° F

Humidity: 0 to 98% non-condensing

OPTIONS

Input Voltages: 24 VAC

Outputs: Non-latching “make-before-break” relays



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