

RPM CONTROLLER / TRANSMITTER

Model : RP 491



Introduction

The RPM Controller / Transmitter is a reliable and versatile device used for measuring revolutions per minute (RPM) in various applications. With its advanced features and precision, the RP 491 offers accurate monitoring of motor and shaft speeds. Equipped with user-friendly controls and a clear display interface, it provides operators with real-time feedback essential for maintaining optimal performance and preventing potential damage to machinery. Whether in automotive, industrial, or other settings, the RPM Controller and Transmitter is a trusted tool for ensuring efficiency and safety in rotational speed monitoring.

Applications

- ☐ Automotive
- ☐ Manufacturing
- ☐ Aerospace
- ☐ Power Generator

Features

- ✓ 4 Digit seven segment LED display
- ✓ Wide range 10 – 9999 RPM / RPS / RPH
- ✓ 3 to 30V DC Input Pulse from any type Sensor
- ✓ Opto isolated Re-transmission analog output 4-20mA or 0-10V DC
- ✓ Optional RS 485 (2 wire) MODBUS RTU Protocol communication
- ✓ Allows Maximum 3.5 kHz Input Pulse Speed
- ✓ 12 V DC Sensor Supply
- ✓ Universal Supply Voltage 90 to 270V AC / DC
- ✓ RPM / Rate / Frequency Front Key Scalable
- ✓ Scale factor & Exponential are Pre-settable
- ✓ 2 Relay Output with Front Key Set table Hi & Lo Set points
- ✓ Power ON Delay & Hysteresis for Relay Output is Provided
- ✓ Speed Monitoring
- ✓ Speed Control High & Low Speed Alarm
- ✓ Length Measurement & Control
- ✓ Line Frequency Monitor & Alarm
- ✓ All types of Speed / Rate / Frequency Monitoring & Control Applications

Technical Specifications

Model	RP 491
Display	4 Digit 0.5" 7 segment Red LED
Accuracy	± 0.05 % (± 1 count)
Range	10 - 9999 RPM / RPS / RPH
Resolution	0.001, 0.01, 0.1, 1 RPM / RPS / RPH (selectable)
Input	3 - 30V DC from Proximity Sensor, Photoelectric Non Contact Sensor, Encoder, Potential Free Contacts, Limit Switch etc.,.
Input speed	3.5 kHz (Max.)
Scale factor	0.001 to 9.999
Exponential	$10^n = -3, -2, -1, 0, 1, 2$
Relay output	2 NO , 2 NC 5A rated Relays (power ON Delay & Hysteresis provided)
Re-transmission (optional)	Opto isolated analog output 4-20mA or 0-10V DC(any one factory presettable against order)
Communication (optional)	RS 485 (2 wire) MODBUS RTU Protocol
Sensor supply	12V DC (±10%) 50mA
Power Supply	90 to 270V AC / DC 50Hz
Working temperature	0 – 50°C
Dimension	96(H) X 96(W) X 65(D) mm
Cut out Dimension	90(H) X 90(W) mm
Weight	350 grams (Approx.)

Note: Due to continuous product improvements, published specifications may change without notice



SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES

ISO/IEC 17025 Accredited Calibration Laboratory by NABL CC - 2879
(Thermal, Mechanical, Electro-Technical, Dimension Parameters)

1 / 46 , 3rd Main road, Ganga Nagar, MMDA Colony , Maduravoyal , Chennai - 600 095, INDIA
☎ +91 44 2378 3951, ☎ +91 72999 72085 / 86 / 93, ☎ +91 98401 49928 ✉ enquiry@ sansel.net



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