

# RPM INDICATOR / CONTROLLER

CNR 230 is a new approach to Process Measurement integrating Control I/Os which Measures RPM value of any motors or Devices which accepts input from Proximity, Photo Electric, Magnetic Pickup, Potential Free Contact Limit, Pulse Inputs. Our Process Indicator which acts as a controller device with respect to the input by providing two number of Relay's. EERAM is provided to store the Setpoints and constants. Our Device can measure the RPM ranges from 0 to 99999 RPM with Accuracy of 0.01%.



## Technical Specification

### RANGE

Range	3.0 to 99999 RPM 0.01 to 99999 user units (Rate)
Resolution	0.01 for (3.0-150) RPM / RPS / PPS 0.1 for (150-1500) RPM / RPS / PPS 1 for (1500) RPM / RPS / PPS
Accuracy	+ 0.01% +2 Digit on Reading
Auto Ranging	Available

### DISPLAY & KEYPAD DATA

Type	4 Digit 0.56" Seven segment Red LED
Displayed Data	Process value, Set point 1&2, Control Band
Status Indication	Relay1, Relay2 & Comm. Status
Operator Interface	Four Keys. (Index, Shift, Increment & Enter)
No. of Set Point	Two
No. of Band Set	Two
Memory Backup	Provided with EEPROM

## Key Function

No. Of Set Points	One / Two for RPM / MPM / RPS / PPS
Relay Action	On crossing set control limits
Time Delay for Relay Action	1 - 99 Seconds programable
Scale Factor	0.000-99999 for Rate Monitor
Setting Means	4 Keys with Password lock
Memory	EERAM to Store the set points and constants

## Display

RPM Indicator (CNR 230)	5 Digit 0.5" 7 Segment Red LED
RPM Controller (CNR 240)	5 Digit 0.5" 7 Segment Red LED

## Input

Input Type	a) Proximity pickup, Photo electric pickup, magnetic pickup (+12V DC 100 mA provided for sensor) b) Potential free contact limit switch / NO-NC Contact c) Pulse Inputs
Maximum Input Frequency	0-200/0-2000 Hz

## Output

Output (CNR 240)	1) Two Relays with 1 c/o contact for each setpoint Contact Rating: 5A @ 240V AC 2) 4-20mA proportional to reading with 500 $\Omega$ load impedence Accuracy: +0.5% OFS
Auxiliary Supply Voltage	90-270V AC 50Hz
Ambient Temperature	55°C (Max.)
Mains Failure Protection	Available
Relative Humidity	5 to 95% Rh Non condensing

## Case Dimension

Enclosure	ABS Plastic
Box Dimension	Bezel : 96(H) x 96(W) x 120(D) mm Cutout: 88(H) x 88(W) mm
Mounting	Panel

## Features

- Microcontroller based design
- RPM / MPM Indicator
- Programmable Scale Factors / Set Points / No. of Projections
- Inputs from Proximity / External Pulse / Encoder

## Applications

- Rotational & Surface
- Speed Monitor Measurements RPM / MPM
- Zero Speed Switch



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