

Rate Meter

# RS Series



**FEATURES:**

- Low cost
- Easy to read led display
- Screw terminal connections
- Small panel footprint
- Programmable scaling, decimal point & sample time
- Frequency, RPM or line speed modes

**DESCRIPTION:**

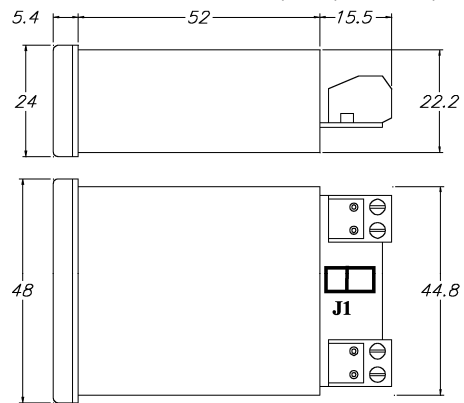
The RS Series are panel mount frequency, rate and Line Speed meters. Their programmable scaling makes them capable of displaying, frequency, RPM and line speed as well other units of rate or flow.

**SPECIFICATIONS:**

|              |  |
|--------------|--|
| Function     | Frequency, RPM or Line speed meter   |
| Display      | 4 digit, LED, 9.14mm, 0.36" high characters, 0 - 999                               |
| Power Supply | 5V, 12V or 24V DC  |
| Consumption  | 0.5W max.  |
| Input        | Non-voltage contact closure / NPN open collector. (PNP upon request)               |
| Input speed  | 1k Hz Max (jumper J1 for low speed inputs 100 Hz)                                  |
| Housing      | Plastic  |
| Mounting     | Panel mount, cutout: 45mm (1.77") x 22mm (0.866")                                  |
| Connection   | Screw terminals  |
| Temperature  | Operating: 14 to 131°F (-10 to 55°C) no icing, Storage: -13 to 149°F (-25 to 65°C) |
| Humidity     | 35% to 85% RH  |

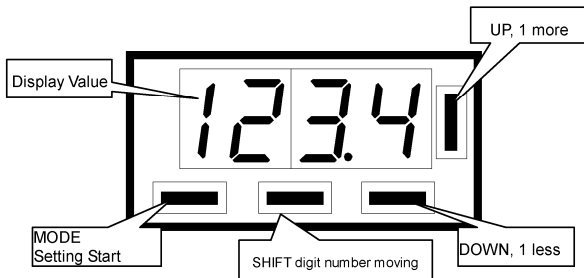
**DIMENSIONS:** mm (1mm = .03937", 1"= 25.4mm)

Panel cutout: 45mm (1.77") x 22mm (0.866")



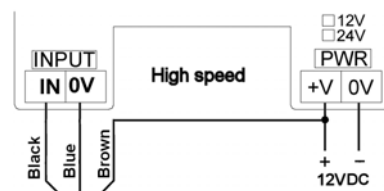
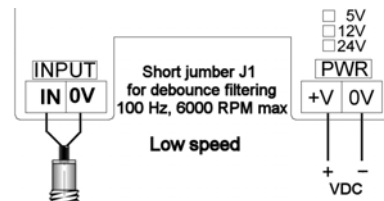
**WIRING EXAMPLES:** model RS-N...

**PROGRAMMING SETUP:**



Hold "mode" key around 0.5 second to enter the parameter setting mode

|             |   |
|-------------|---|
| <b>SPT</b>  | Sampling time (SPT): Increasing value causes the display to become more stable, but the response will be slower. Press SHIFT key to start setting, the range: 0.1-9.9 sec.  |
| <b>SCL</b>  | Scaling Setting (SCL): setting input signal scaling, Rate = Frequency x 60 / SCL, press SHIFT key to start the setting. Range: 0.1-999.9. Example use 1 for RPM and 60 for Frequency.   |
| <b>Pnt</b>  | Decimal Point (Pnt): setup the position of decimal point of current value, press SHIFT key to start the setting, then press it again to change the setting.   |
| <b>mode</b> | Measuring Mode (MODE): setup Rate or LINE SPEED mode. Press SHIFT key to start the setting and press UP/DOWN key to change it.<br><input type="checkbox"/> R <input type="checkbox"/> P <input type="checkbox"/> N = Rate <input type="checkbox"/> L <input type="checkbox"/> I <input type="checkbox"/> N <input type="checkbox"/> E = Line Speed                        |
| <b>dim</b>  | Dimension (DIM) setup the diameter dimension of ROLLER in mm. It is necessary at the LINE SPEED MODE and the range is 1-9999mm. Line Speed (M/min) = Signal Frequency x 60 x π x diameter. Set (SCL) scaling to 1 for per min and 60 for per sec. For ft/min multiple the diameter of the roller in mm by 3.28, for yards/min multi diameter of the roller in mm by 1.29. |



NPN open collector sensor

**Ordering Information: i.e.: RS-N-2M**

**MODEL** RS - N - 2 M  
**CODE:** Series 1 2

- 1 Input: N=NPN, (P=PNP upon request)
- 2 Power Supply: 1=5V, 2=12V, 3=24V, DC