

# 9100 Series

## Predetermining Counter / Ratemeter



**The versatile 9100 multi-function instrument is a multi-preset, totalizing counter / ratemeter with backlit display.**

Simultaneous operation in different modes is now possible with this recent development of the highly successful 9100 multi-function counter. Additional enhancements include 3-line display, more keys, enhanced programming, EEPROM memory avoiding the need for a battery, and on-screen programming prompts in four languages.

The 9100 carries out rate measurement, batch counting and totalizing simultaneously. Rate mode is signified by an R appearing at the top left hand corner of the display and counting carries on in the background. The first line of the display shows pulses per minute (PPM) unless a prescaler is in use.

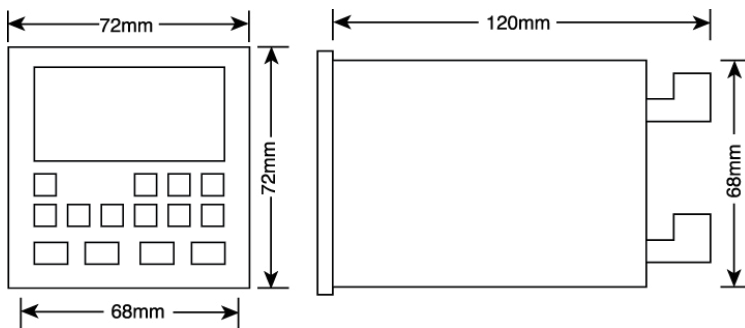
### Key Features

- Simultaneously maintains any 3 of the following: Count preset, count pre-warn, batch preset, overspeed, underspeed condition and displays count, total and speed
- Counts in any of 7 modes: A-B, A+B, A/B, count and direction and quadrature x1, x2 and x4
- EEPROM retains program and data for 40-years with no power
- 3-line Supertwist LCD display viewable from any angle
- Easily programmed in English, German, French or Spanish using simple menu structure and 10-key keypad
- Counting continues while rate measurement is in progress
- Accurate enough for position sensing and robotic control
- Can be powered from 85-265VAC for world-wide use
- Multiplying and dividing prescalers enable display directly in the required (engineering) units
- Manual, remote and automatic resets available
- Remote inhibit and remote keyboard disable
- Fast electronic or slow contact closure inputs, all with optical isolation. Contact closure inputs are debounced
- Auxiliary 12VDC 100mA power output to power sensor
- Environmental protection to IP65/NEMA4X
- CE approved

## Specifications

<b>Power Supply</b>	85 - 265VAC
<b>Auxiliary Output</b>	12VDC $\pm$ 10% 100mA for powering sensors
<b>Display</b>	3 line high contrast supertwist backlit LINE 1: 8 numeric LCD LINE 2: 12 alphanumeric LINE 3: 12 alphanumeric
<b>Keyboard</b>	Sealed elastometric keyboard with 10 keys
<b>Connections</b>	1 x 9 way and 1 x 10 way plug in terminal strips with wire clamps. Each way capable of accepting up to 2 OFF 2.5mm <sup>2</sup> (0.1in <sup>2</sup> ) conductors
<b>Prescaler</b>	0.0025 - 9.99999 . Multiplying 0.00250 - 9.99999. Dividing 1- 9999
<b>Rate Input</b>	Input A only. 8 - 30VDC. Maximum 600k PPM (10kHz), minimum 4.7 PPM (0.078Hz i.e. one pulse every 12.8s)
<b>Control Inputs</b>	External reset, count inhibit, keyboard disable. Maximum 30Hz contact closure or solid state input. 8 - 30VDC Opto-Isolated
<b>Manual Reset</b>	Can be disabled on installation or remotely reset
<b>Remote Reset</b>	Contact closure or pulse (minimum pulse duration 34msec) Automatic Reset Program to reset to zero on reaching preset 3 or vice versa
<b>Control Outputs</b>	3 SPST relays. Contacts 5A 260VAC, 220VDC 1300VA/150W. Programmable for pulsed, latched or disabled
<b>Front Panel Sealing</b>	IP 65/NEMA 4X
<b>Operating Temp.</b>	-10°C to +60°C [14°F to 140°F]
<b>Storage Temp.</b>	-20°C to +70°C [-4°F to 158°F]
<b>Relative Humidity</b>	85% at 25°C non-condensing

## Dimensions



## Ordering Information

**9100**

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