

# 9100 Series

## Predetermining Counter / Ratemeter



**The versatile 9100 multi-function instrument is a multi-preset, totalising 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 totalising 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.

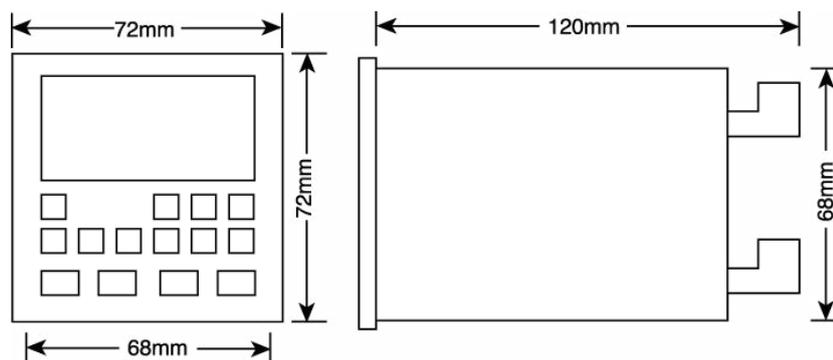
### Key Features

- 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
- Displayed values, choice of engineering units and 12 characters of user programmable text can be printed directly from the IBM/Epson compatible serial printer port
- 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>Supply Voltage</b>	85 - 265VAC or 10 - 26VDC at 100mA
<b>Auxiliary Output Supply</b>	12VDC $\pm$ 10% @ 100mA (when operating from AC supply)
<b>Display</b>	2 rows of 6 digits, supertwist LCD with yellow/green LED backlight. Upper row 7mm (0.28in) high indicates count, lower row 4mm (0.16in) high indicates P1 preset point Also Relay Active annunciator
<b>Backlight Control</b>	Programmable to Always ON, Always OFF or AUTO (ON for 30s following last keypress)
<b>Preset Points</b>	User selectable preset point 1 - 999999
<b>Count Inputs</b>	High Speed NPN/PNP Opto-isolated 10 - 30VDC. Maximum input frequency 10kHz Low Speed Opto-isolated 12 - 260VAC/DC. Maximum input frequency 30Hz
<b>Prescaler</b>	Multiply 0.00001 - 9.99999, default 1.00000 Divide 1 - 99999, default 00001
<b>Manual Reset</b>	Can be disabled on installation or remotely
<b>Remote Reset</b>	Contact closure or pulse (minimum pulse duration 34msec)
<b>Automatic Reset</b>	Programmable for automatic or Manual/Remote reset
<b>Data Retention</b>	40-years minimum
<b>Output Relay</b>	Contact Connection SPDT Contact Rating 5A 260 VAC 30 VDC 1300 VA/150 W
<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>Environmental Protection</b>	IP65 (NEMA4X) when properly installed using the sealing gasket supplied (without bezel)

## Dimensions



## Ordering Information

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