



## 9100

### 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.

#### 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 & 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



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.

#### Specification

- Power Supply 85 - 265VAC.
- Auxiliary Output 12VDC  $\pm 10\%$  100mA for powering sensors
- Display 3 line high contrast supertwist backlit
  - LINE 1: 8 numeric LCD
  - LINE 2: 12 alphanumeric
  - LINE 3: 12 alphanumeric
- Keyboard
- Sealed elastometric keyboard with 10 keys
- Connections
- 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
- Prescaler
- 0.0025 - 9.99999 . Multiplying 0.00250 - 9.99999. Dividing 1- 9999
- Rate Input
- Input A only. 8 - 30VDC. Maximum 600k PPM (10kHz), minimum 4.7 PPM (0.078Hz ie one pulse every 12.8s)
- Control Inputs
- External reset, count inhibit, keyboard disable. Maximum 30Hz contact closure or solid state input. 8 - 30VDC opto-isolated
- Manual Reset
- Can be disabled on installation or remotely reset
- Remote Reset
- Contact closure or pulse (maximum 30Hz)
- Automatic Reset Program to reset to zero on reaching preset 3 or vice versa
- Control Outputs 3 SPST relays. Contacts 5A 260VAC, 220VDC 1300VA/150W Programmable for pulsed, latched or disabled
- Front Panel Sealing IP65 when properly mounted using gasket supplied
- Operating Temp. -10°C to +60°C [14°F to 140°F]
- Storage Temp. -20°C to +70°C [-4°F to 158°F]
- Relative Humidity 85% at 25°C non-condensing

#### Ordering Information

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