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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

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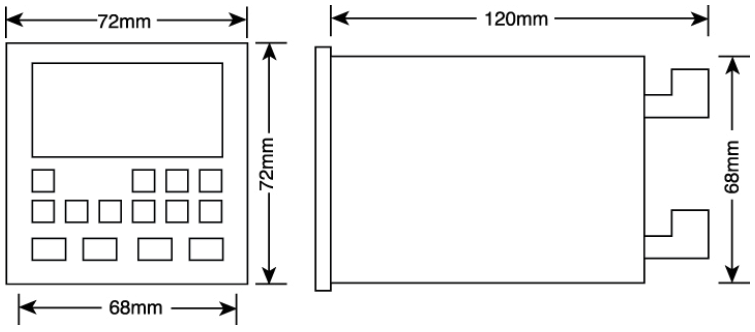
Specifications

Power Supply	85 - 265VAC
Auxiliary Output	12VDC ±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 2.5mm2 (0.1in2) 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 i.e. 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 (minimum pulse duration 34msec) 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	IP 65/NEMA 4X
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

Dimensions



Ordering Information

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