![Trumeter logo] **tru**meter
innovation by design

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.
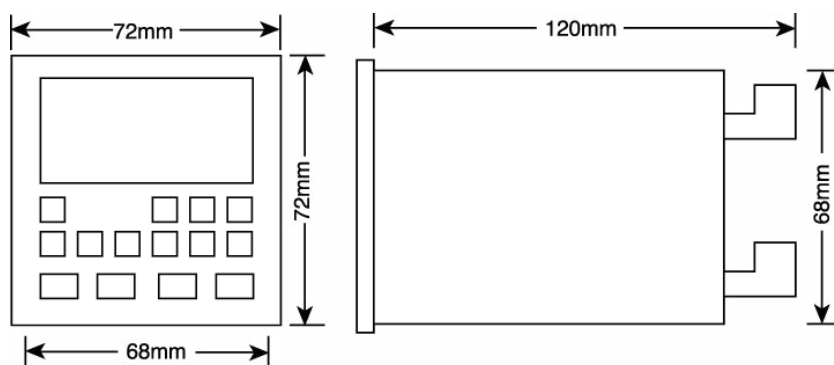
Key Features

- 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

Supply Voltage	85 - 265VAC or 10 - 26VDC at 100mA
Auxiliary Output Supply	12VDC ± 10% @ 100mA (when operating from AC supply)
Display	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
Backlight Control	Programmable to Always ON, Always OFF or AUTO (ON for 30s following last keypress)
Preset Points	User selectable preset point 1 - 999999
Count Inputs	High Speed NPN/PNP Opto-isolated 10 - 30VDC. Maximum input frequency 10kHz Low Speed Opto-isolated 12 - 260VAC/DC. Maximum input frequency 30Hz
Prescaler	Multiply 0.00001 - 9.99999, default 1.00000 Divide 1 - 99999, default 00001
Manual Reset	Can be disabled on installation or remotely
Remote Reset	Contact closure or pulse (minimum pulse duration 34msec)
Automatic Reset	Programmable for automatic or Manual/Remote reset
Data Retention	40-years minimum
Output Relay	Contact Connection SPDT Contact Rating 5A 260 VAC 30 VDC 1300 VA/150 W
Operating Temp	-10°C to +60°C [14°F to 140°F]
Storage Temp	-20°C to +70°C [-4°F to 158°F]
Environmental Protection	IP65 (NEMA4X) when properly installed using the sealing gasket supplied (without bezel)

Dimensions

Ordering Information

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