7910 Series Programmable Counter

Designed for industrial machine and process control applications, the 7910 Series provides a full complement of programmable features including bidirectional counting modes, programmable output logic and hold times, and RS-422 or RS-232 data communications. A unique dual-counter-mode lets the Series 7910 replace the functions of two predetermining counters in some applications.

Among the 7910 Series' convenience oriented features are rugged screw-terminal strips for easy wiring, 115/230 VAC dual operating voltage, and a regulated DC voltage output with enough capacity to support two encoders.
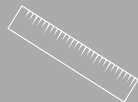
- Two high-speed counting registers with separate calibration factors
- Quick and easy setup using built-in "library" of popular programs
- Add/subtract, count/direction, or quadrature bidirectional input modes
- Big, bright, high-contrast red LED display
- Control outputs from two 5 amp rated relays, plus solid state outputs
- Nonvolatile memory for all programmed, preset, and counted data
- Sealed, NEMA-4 rated front panel; dust-free and water-tight
- Direct access keys for all operating functions – no "shifts or scrolls"
- Data communications port for printer or computer interface
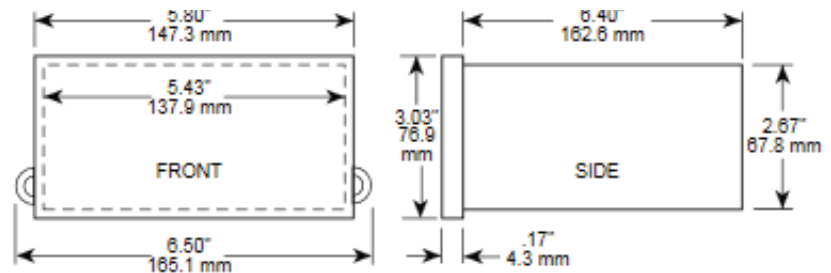- Built-in self-diagnostics and power line fault detection

TIME   COUNT   MEASURE   DISPLAY

VEEDER-ROOT

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Elizabethtown, NC 28337

7910 Series Programmable Counter

SPECIFICATIONS

INPUT POWER	Selectable 115/230 VAC, 50/60 Hz, 20 VA maximum
ACCESSORY POWER	DC output provided for transducer, 15 VDC ±5%, 160mA maximum
DISPLAY	6 digit, 0.56" (14.2 mm) red LED
DECIMAL POINT	Selectable decimal point location
KEYBOARD	Sealed membrane; rated NEMA-4 when unit is panel mounted with gasket provided
CONFIGURATION	Two separate 6 decade counting registers with assignable preset limits, and operating modes
CALIBRATOR	Separate input scaling for count registers A and B; Range: 0.0001 to 9.9999
PRESET LIMITS	2 individual, 6 digits each; may be individually assigned to count register A or B
PRESET MODES	Up Mode: Resets to zero, processes presets when count matches limit value; Down Mode: Resets to preset limit value, outputs are actuated at zero and second preset limit (if used); Totalizer Mode: Count register A or B can operate as totalizer if not assigned preset limit
COUNTING MODES	Add/add, add/subtract, count/direction, quadrature
INPUT LOGIC	X1, X2, X4 (quadrature only)
COUNT RATE	Maximum 10 kHz count rate with single input driven, 7.5 kHz with both inputs driven
SIGNAL INPUTS	Open collector (sinking), or contact closure (programmable input filter)
CONTROL INPUTS	Reset A, reset B, and stop count (commands initiated when switched to common)
CONTROL OUTPUTS	2 form-C relays, rated at 5 amp/230 VAC, maximum; 2 NPN transistor (sinking); 30 VDC/150 mA, maximum
RESET	Front panel push-button, remote, programmable automatic
SECURITY	Selectable locks for reset, preset, and program mode
DIAGNOSTICS	Tests for control inputs, outputs, panel keys, and display
COMMUNICATIONS	RS-422, RS-232, See ordering table; 7 bit ASCII plus parity; Baud rate to 2400
OPERATING TEMPERATURE	+32° to +122°F (0 to +50°C)
WEIGHT	2.5 lbs. (1.1 kg)

DIMENSIONS

5.80" 147.3 mm
5.43" 137.9 mm
FRONT
6.50" 165.1 mm
3.03" 76.9 mm

6.40" 162.6 mm
SIDE
2.67" 67.8 mm
.17" 4.3 mm

Panel Dims: Cutout: 5.43" x 2.68" (68.1 mm x 137.9 mm).

ORDERING INFORMATION

Standard Models

0791086-210   UL/CSA, RS-422 Data
0791086-220   UL/CSA, RS-232 Data

Special variations may be available. Please consult factory.