

An advanced controller with 3 independent counters - ideal for rate monitoring and batching applications.

The PRO-CTR offers a variety of advanced features, including batching and batch counting, timed and latched setpoints, and a range of customisable operations and display settings.

- › **3 independent hardware counters**
Quadrature (x1, x2, x4), NPN, PNP, TTL sensors
- › **Intelligent count modes**
Choose from a variety of smart formulas to suit your application
- › **Optional dual display** For simultaneous viewing of multiple variables
- › **Intuitive interface** With scrolling text prompts
- › **Up to 4 setpoints**
- › **Optional 4–20mA or 0–10V analog output**
- › **Optional RS232/RS485 serial port**



Specifications

Input

Sensor type Quadrature (x1, x2, x4), NPN, PNP or TTL
3 x counter inputs available

Input 0–24V DC, 0–30V AC

Power supply

*HV= 85–265V AC / 95–370V DC, or
 LV= 15–48V AC / 10–72V DC*

Excitation

*Default: 24V DC (50mA max)
 Optional: 5V DC (200mA max)*

Counter

Count modes Quad x1/x2/x4, A+B, A–B, A/B Independent, Up/Down, C Count, Reset to offset A B, Reset to offset and start A B

Input frequency

*10kHz: Quad x4, A+B, A–B, A/B Ind, Up/Down, RSOFAB, RSOFST
 20kHz: Quad x1, Quad x2
 38kHz: C Count*

Sampling rate 10msec

Rate

Input frequency 20kHz max

Minimum pulse width Must be > 5µs

Sampling rate 100msec

Resolution 0.01Hz

Accuracy 0.005%

Temperature drift Typically 2ppm/°C

Relay Output

Number of relay outputs None, 2 or 4

Relay output type 5A form A (3A 240V AC max or 3A 30V DC max)

Analog Output

Number of analog outputs None or 1

Analog output type Isolated 16 bit 4–20mA/0–10V

Comm Port

Number of comm ports None or 1

Comm port options

S2R= Isolated RS232, RJ terminal, or
S4S= Isolated RS485, screw terminal

Serial output Custom ASCII, Modbus RTU slave or Ranger A

Data rate 1200–115k2 baud

Parity Odd, even or none

Display

Display type 14 segment alphanumeric LED display, 5 buttons

LED indicators 6 setpoint LED's

PRO-CTR100 1 x 6 digits 13mm (0.5")

PRO-CTR200 2 x 6 digits 10mm (0.4")

Display range 0.1 to 99999.9

Programming

Front panel buttons Up, Down, P (Prog/Enter), plus 2 Menu buttons (F)

Security Input and setpoint setups are independently accessible and PIN protected

Construction

Casing Panel mount case

Ingress protection rating IP65 dust/splash proof (face only)

Dimensions (H x W x D) 48 x 96 x 120mm
(1.89 x 3.78 x 4.72")

Panel cutout 45 x 92mm (1.77 x 3.62")

PRO-CTR Product Codes

PRO-CTR	Counter/Rate Batching Controller
-100	Single display: 1 x 6 digits 13mm (0.5")
-200	Dual display: 2 x 6 digits 10mm (0.4")
-R2	No relay output
-R4	2x relay outputs
	4x relay outputs
-A	No analog output
	Analog output 4–20mA / 0–10V
-S2R	No serial output
-S4S	Isolated RS232, RJ terminal
	Isolated RS485, screw terminal