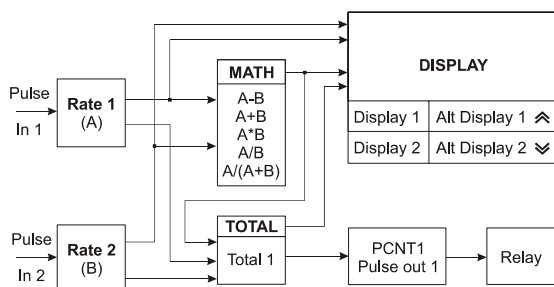


2-channel Flow-rate Counter CT34SB



- ◆ Accepts pulse signals from 2 flow-meters
- ◆ Fully-programmable math block
- ◆ Two 6-digit LED displays
- ◆ Indicates current flows, math result, total counts
- ◆ Programmable relay output
- ◆ Sensor excitation voltage 5...24 VDC
- ◆ Programmable input filtering
- ◆ 96x48 DIN-sized front panel

CT34SB is a specialized 2-channel fully programmable flow-rate totalizing counter. The instrument is especially designed to measure pulse signals from 2 different flow-meters according to the functional block-diagram below:



Counter software allows a convenient programmable scaling of both measured flow signals and applying various calculations on both flow rates. CT34SB is equipped with two 6-digit LED displays indicating current flow-rates, mathematically calculated values as well as accumulated total counts. The counter has also an optional relay output for generating impulse when certain total value is reached (dosing function).

Technical specifications

Inputs

Counting inputs	2 pulse inputs (A and B)
Input type	contact (NO) or PNP/NPN sensor
Active front	programmable
Maximum input frequency	5 kHz
Input filter	programmable low-pass filter
Scaling coefficients	scale factor and time-base
Totalizer range	up to 5000000 counts
Math functions	A-B, A+B, A*B, A/B, A/(A+B)

Indication and controls

Digital displays	2 x 6 LED indicators, 9 mm
Display function (link)	Rate A(B), Math result, Total
LEDs	LED for output state
Keyboard	3 membrane keys

Output

Relay electromechanical	5A/250V w/ NO/NC contact
Solid state relay ⁽¹⁾	1A/250VAC
MOS gate ⁽¹⁾	0.1A/60V, optically isolated
Transistor gate ⁽²⁾	open collector, 40mA/40V
Output for external SSR	5...24 V, 30 mA
Relay action	totalizer set-point (dosing function)
Output pulse duration	0.02...1.2 s, programmable

⁽¹⁾ Ask for availability!

⁽²⁾ ONLY with isolated power supply!

Power supply

Mains supply voltage	230 VAC or 115 VAC
SMPS voltage	90...250 V
Isolated low voltage	12...24 V or 24 VAC
Non-isolated low voltage	12...24 V
Consumption	max. 6 VA

Operating conditions

Ambient temperature	-10...65 °C
Ambient humidity	0..85 %RH
Storage temperature	-20...65 °C
Storage humidity	0...95 %RH, non-condensing

Design and materials

Case material	plastic
Mounting	in 90x42 mm panel cut-out
Wiring	plug-in terminals
Dimensions	96x48(front)x107 mm
Mounting depth	98 mm
Weight	max. 280 g
Protection, front/terminals	IP54 / IP20
Increased front IP (option)	IP65

Ordering code CT34SB - G1.G5 - #1

Code	Feature or option	Code values
G1	Power supply	A - 230 VAC, B - 115 VAC, C - 90...250 V, P - 12...24 V, non-isolated, Q - 12...24 V, isolated, R - 24 VAC
G5	Relay output	X - none, C - relay NO/NC, D - SSR ⁽¹⁾ , E - open collector NPN ⁽²⁾ , J - for external SSR, M - isolated MOS gate ⁽¹⁾
#1	Increased front protection	X - none, P - IP65 front protection