Product Overview

Compact LCD Pulse Meter

Model	LR5N-B
Appearances & Dimensions	 [W48×H24×L54mm]
Display method	LCD zero blanking method (character height: 8.7mm)
Display range	0 to 10000
Power supply	Internal lithium battery
Input method	[No-voltage input] Short-circuit impedance: max. 10kΩ, Residual voltage: max. 0.5V, Open-circuit impedance: min. 500kΩ [Voltage input 1] • High: 4.5-30VDC, Low: 0-2VDC • 3-30VAC [Voltage input 2] 30-240VAC
Measurement range	1 to 10000RPM, 0.1 to 1000.0RPM, 1 to 1000RPS, 1 to 1000Hz, 0.1 to 100.0Hz
Measurement accuracy	F.S. ±0.1% ±1-digit
Reference	**M-4 to 6**

Pulse Meter

Series		MP5S	MP5Y	MP5W
Appearances & Dimensions		CE c(UL)us Upgrade [W48×H48×L90mm]	CE c(UL)us Upgrade [W72×H36×L100mm]	CE c(UL)us Upgrade [W96×H48×L100mm]
Display method		7-segment LED (zero blanking method)		
Character size		W4×H8mm	W7×H14mm	
Display range		-19999 to 99999		
Power supply	AC voltage	100-240VAC 50/60Hz		
	AC/DC voltage	24VAC 50/60Hz, 24-48VDC		
External sensor power		12VDC±10%, 80mA		
Sub power supply		—		24VDC 30mA
Input frequency		·Solid state input 1: Max. 50kHz (pulse width: min. 10μs) ·Solid state input 2: Max. 5kHz (pulse width: min. 100μs) ※For F7, F8, F9, F10 operation mode, max. 1kHz (pulse width: min. 500μs) ·Contact input: Max. 45Hz (pulse width: min. 11ms)		
Input method		[Voltage input] High: 4.5-24VDC, Low: 0-1.0VDC, Input impedance: 2.4kΩ [No-voltage input] Short-circuit impedance: Max. 80Ω, Residual voltage: Max. 1V, Open-circuit impedance: Min. 100kΩ		
Measurement range		·Operation mode F1, F2, F7, F8, F9, F10 : 0.0005Hz to 50kHz ·Operation mode F3, F4, F5, F6 : 0.01 to max. of each time range ·Operation mode F11, F12, F13, F16 : 0 to 99999 ·Operation mode F14, F15 : -19999 to 99999		
Measurement accuracy (23±5℃)		·Operation mode F1, F2, F7, F8, F9, F10 : F.S.±0.05%rdg±1-digit ·Operation mode F3, F4, F5, F6 : F.S.±0.01%rdg±1-digit		
Display cycle		OFF (for F2, F16 operation mode), 0.05, 0.5, 1, 2, 4, 8 sec (same as update output cycle)		
Operation mode		Frequency/Revolutions/Speed (F1), Passing speed (F2), Cycle (F3), Passing time (F4), Time interval (F5), Time differential (F6), Absolute ratio (F7), Error ratio (F8), Density (F9), Error (F10), Length measurement 1 (F11), Interval (F12), Accumulation (F13), Addition/Subtraction-individual input (F14), Addition/Subtraction-phase difference input (F15), Length measurement 2 (F16)		
Prescale function		Direct input method ($0.0001×10^{-9}$ to $9.9999×10^{9}$)		
Hysteresis		0 to 9999 ※1		
Output	Main Relay triple		250VAC 3A resistive load		
	Main Relay quintuple		—	250VAC 3A resistive load	
	Main NPN/PNP open collector quintuple	—	Max. 30VDC 30mA		
	Sub BCD Dynamic		Max. 30VDC 30mA		
	Sub Analog		DC4-20mA/DC0-20mA max. load 500Ω		
	Sub Communication		RS485 communication output (Modbus RTU method)		
Reference		**M-7 to 32**		

※1: Setting range will vary depending on the decimal point.

Autonics

Pulse Meter- Thumbwheel Switch Setting Type

Model		MP5M-2N	MP5M-4N	MP5M-21	MP5M-41	MP5M-22	MP5M-42
		Indicator		High-limit setting		High/Low-limit setting	
Appearances & Dimensions		CE c𝐔𝐋us [W72×H72×L75mm]					Upgrade
Display method		7-segment LED (zero blanking method)					
Character size		W4×H8mm					
Display range		-19999 to 99999					
Power supply	AC voltage	100-240VAC 50/60Hz					
	AC/DC voltage	24VAC 50/60Hz, 24-48VDC					
External sensor power		12VDC±10%, 80mA					
Input frequency		·Solid state input 1: Max. 50kHz (pulse width: min. 10µs) ·Solid state input 2: Max. 5kHz (pulse width: min. 100µs) ※For F7, F8 operation mode, max. 1kHz (pulse width: min. 500µs) ·Contact input: Max. 45Hz (pulse width: min. 11ms)					
Input method		[Voltage Input method] High: 4.5-24VDC, Low: 0-1.0VDC, Input impedance: 2.4kΩ [No-voltage Input method] Short-circuit impedance: Max. 80Ω, Residual voltage: Max. 1V, Open-circuit impedance: Min. 100kΩ					
Measurement range		·Operation mode F1, F2, F7, F8 : 0.0005Hz to 50kHz ·Operation mode F3, F4, F5, F6 : 0.01 to max. of each time range ·Operation mode F9, F10, F11, F14 : 0 to 99999 ·Operation mode F12, F13 : -19999 to 99999					
Measurement accuracy (23±5℃)		·Operation mode F1, F2, F7, F8 : F.S.±0.05% rdg±1-digit ·Operation mode F3, F4, F5, F6 : F.S.±0.01% rdg±1-digit					
Display cycle		OFF (for F2, F14 operation mode), 0.05, 0.5, 1, 2, 4, 8 sec (same as update output cycle)					
Operation mode		Frequency/Revolutions/Speed (F1), Passing speed (F2), Cycle (F3), Passing time (F4), Time interval (F5), Time differential (F6), Absolute ratio (F7), Density (F8), Length measurement 1 (F9), Interval (F10), Accumulation (F11), Addition/Subtraction-individual input (F12), Addition/Subtraction-phase difference input (F13), Length measurement 2 (F14)					
Prescale function		Direct input method ($0.0001×10^{-9}$ to $9.9999×10^{9}$)					
Hysteresis		—		0 to 9999[※1]			
Main output	Relay single	—		250VAC 3A resistive load 1c		—	
	Relay dual			—		250VAC 3A resistive load 1a×2	
	NPN open collector			Max. 30VDC 100mA		Max. 30VDC 100mA×2	
Reference		**M-33 to 45**					

※1: Setting range will vary depending on the decimal point.