

Linear Scales AT113

SERIES 539 — Slim Spar Type

- Slim spar type with unit sectional dimensions of 22x35mm.
- Connectable to the **KA** counter, **KLD** counter or **PSU-200**.
- Dimensionally compatible with **AT116** linear scale units.



SPECIFICATIONS

Model	AT113
Effective range	4" to 60" / 100 to 1500mm (20 models)
Resolution	.001" to .000005" / 0.01 to 0.0001mm
Accuracy (20°C)	Standard: (5+5L ₀ /1000)μm, High accuracy: (3+3L ₀ /1000)
Output signal	Two 90° phase-shifted sinusoidal signals
Maximum response speed	120m/min
Signal output pitch	20μm
Scale reference point	Output in 50mm pitch
Protection level	IP53
Operating temperature	0 to 45°C

* High-precision model **AT113F** (JIS Class 0, 3+3L₀/1000)μm is also available to special order.

* Ultrahigh-precision model **AT113S** (2+2L₀/1000)μm is also available to special order for the effective range 100 to 500mm.

AT113				Effective range L ₀ inch / mm	Signal cable length(m)
Order No. (standard)	Model	Order No. (High accuracy)	Model		
539-201-30	AT113-100	539-201-40	AT113-100F	4" /100mm	3
539-202-30	AT113-150	539-202-40	AT113-150F	6" /150mm	
539-203-30	AT113-200	539-203-40	AT113-200F	8" /200mm	
539-204-30	AT113-250	539-204-40	AT113-250F	10" /250mm	
539-205-30	AT113-300	539-205-40	AT113-300F	12" /300mm	
539-206-30	AT113-350	539-206-40	AT113-350F	14" /350mm	
539-207-30	AT113-400	539-207-40	AT113-400F	16" /400mm	
539-208-30	AT113-450	539-208-40	AT113-450F	18" /450mm	
539-209-30	AT113-500	539-209-40	AT113-500F	20" /500mm	
539-211-30	AT113-600	539-211-40	AT113-600F	24" /600mm	
539-213-30	AT113-700	539-213-40	AT113-700F	28" /700mm	
539-214-30	AT113-750	539-214-40	AT113-750F	30" /750mm	
539-215-30	AT113-800	539-215-40	AT113-800F	32" /800mm	
539-216-30	AT113-900	539-216-40	AT113-900F	36" /900mm	
539-217-30	AT113-1000	539-217-40	AT113-1000F	40" /1000mm	5
539-218-30	AT113-1100	539-218-40	AT113-1100F	44" /1100mm	
539-219-30	AT113-1200	539-219-40	AT113-1200F	48" /1200mm	
539-220-30	AT113-1300	539-220-40	AT113-1300F	52" /1300mm	
539-221-30	AT113-1400	539-221-40	AT113-1400F	56" /1400mm	
539-222-30	AT113-1500	539-222-40	AT113-1500F	60" /1500mm	



Optional Accessories

- 09AAA033A:** Extension cable (80" / 2m)
- 09AAA033B:** Extension cable (200" / 5m)
- 09AAA033C:** Extension cable (280" / 7m)



- 174-183A** 2-Axis KA Counter
- 174-185A** 3-Axis KA Counter



174-183A

Unit: mm (inch)

