

Comparison of REED Tachometers and Stroboscopes



MODEL	R7050	R7100	R7140	R7150	K4020
RPM Range (Contact)	N/A	0.5 to 19,999	0.5 to 19,999	0.5 to 19,999	N/A
RPM Range (Photo)	2 to 99,999	2.5 to 99,999	5 to 99,999	10 to 99,999	N/A
Surface Speed Range	N/A	0.05 to 1,999.9 m/min.	0.05 to 1,999.9 m/min 0.2 to 6,560 fpmn	0.05 to 1,999.9 m/min 0.2 to 6,560 fpm	N/A
Flash Range	N/A	N/A	N/A	N/A	100 to 10,000 rpm
REV Count Range	1 to 99,999	N/A	N/A	N/A	N/A
Resolution	0.1 rpm, 1 count	Photo: 0.1 rpm: ≤999.9, 1 rpm: >1000; Contact: 0.1 rpm: ≤999.9, 1 rpm: >1000; Surface: 0.01 m/min: ≤99.99 m/min), 0.1 m/min: >100 m/min]	Photo: 0.1 rpm: ≤999.9, 1 rpm: >1000 rpm; Contact: 0.1 rpm: ≤999.9, 1 rpm: >1000 rpm; Surface: 0.01 m/min: ≤99.9 m/min, 0.1 m/min: >100 m/min; 0.01 ft/min: ≤999.9 ft/min, 1 ft/min: >1000 ft/min	Photo: 0.1 rpm: ≤999.9, 1 rpm: >1000 rpm; Contact: 0.1 rpm: ≤999.9, 1 rpm: >1000 rpm; Surface: 0.01 m/min: ≤99.9 m/min, 0.1 m/min: >100 m/min; 0.01 ft/min: ≤999.9 ft/min, 1 ft/min: >1000 ft/min	1 rpm
Basic Accuracy	±0.05% rdg	±(0.05% rdg + 1 dgt)	±(0.05% rdg + 1 dgt)	±(0.05% rdg + 1 dgt)	±(0.05% rdg + 1 dgt)
Flash Tube Type	N/A	N/A	N/A	N/A	Xenon lamp
Flash Duration	N/A	N/A	N/A	N/A	Approx. 60 to 1000 µs
Flash Color	N/A	N/A	N/A	N/A	Xenon white 6,500°K
Flash Energy	N/A	N/A	N/A	N/A	4 Watt-seconds (joules)
Flash Tube Beam Angle	N/A	N/A	N/A	N/A	80°
Visible Indicator	Yes (Laser)	Yes (Laser)	Yes (Light)	Yes (Laser)	N/A
Target Distance	1.6 ft (500mm)	1.6 ft (500mm) (Photo)	1.0 ft (300mm) (Photo)	6.5 ft (2000mm) (Photo)	N/A
Response Time	<1 sec	<1 sec	<1 sec	<1 sec	<1 sec
Sampling Time	0.5 sec. (over 120 rpm)	0.8 sec. (over 60 rpm)	Photo: 1 sec. (over 60 rpm) Contact: 1 sec. (over 6 rpm)	Photo: 1 sec. (over 60 rpm) Contact: 1 sec. (over 6 rpm)	1x/sec.
Display	5 digit LCD	5 digit LCD	5 digit LCD	5 digit LCD	4 digit LED
Backlit Display	Yes	N/A	N/A	N/A	N/A
Auto shut-off	Yes (after 10 secs)	Yes	Yes	Yes	N/A
Internal Memory	Max, Min and Last	Max, Min and Last	Max, Min and Last	Max, Min and Last	N/A
Tripod Mount	N/A	N/A	N/A	N/A	Yes
Laser Class	Class III	Class III	N/A	Class II	N/A
Low Battery Indicator	Yes	Yes	Yes	Yes	N/A
PC Connectivity	N/A	N/A	N/A	N/A	N/A
Software	N/A	N/A	N/A	N/A	N/A
Software Compatibility	N/A	N/A	N/A	N/A	N/A
Power Supply	9V Battery	4 x AA Batteries	4 x AA Batteries	4 x AA Batteries	110 VAC, 50/60 Hz
Product Certifications	CE	CE	CE	CE	CE
Operating Temperature	32 to 122°F (0 to 50°C)	32 to 122°F (0 to 50°C)	32 to 122°F (0 to 50°C)	32 to 122°F (0 to 50°C)	32 to 122°F (0 to 50°C)
Storage Temperature	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)	-4 to 140°F (-20 to 60°C)
Operating Humidity	10 to 90% RH	10 to 90% RH	10 to 90% RH	10 to 90% RH	10 to 80% RH
Dimensions	6.3 x 2.3 x 1.5" (160 x 58 x 39 mm)	8.3 x 2.9 x 1.5" (210 x 74 x 37 mm)	8.5 x 2.6 x 1.5" (215 x 65 x 38 mm)	8.5 x 2.6 x 1.5" (215 x 65 x 38 mm)	8.3 x 4.8 x 4.8" (201 x 120 x 120 mm)
Weight	5.3 oz (151g)	7.9 oz (224g)	10.6 oz (300g)	10.6 oz (300g)	2.2 lb (1kg)

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