



TOTAL STATION SPECIFICATIONS

Model		W-2801N	W-2802N	W-2803N	W-2805N	
Telescope	Image		Erect			
	Magnification		30 x			
	Effective aperture		45 mm			
	Resolving power		3.0"			
	Field of view		1°25′			
	Minimum focus distance		1.0 m			
	Focus		Manual			
Distance Measurement	Laser class		Visible Laser: Class IIIa (Reflectorless, sheet) / Class I (Prism)			
Measurement Range	(Good condition) (*3)		Visible Easer: Class IIIa (Neile	,,,,		
measurement nange	Reflectorless (*1)		800	0 m		
	Reflector sheet (*2)			0 m		
	Mini Prism			00 m		
	Prism 1P		3,000 m			
	Prism 3		4,000 m			
Accuracy (*4)	Prism		± (2 + 2 ppm x D) mm			
necuracy (+/	Reflector Sheet		± (3 + 2 ppm x D) mm			
Angle Measurement Compensator	Reflectorless		2 ~ 150 m: ± (3 + 2 ppm x D) mm			
	Nenectoriess		$2 \sim 130 \text{ m}: \pm (3 + 2 \text{ ppin x D}) \text{ min}$ $150 \sim 300 \text{ m}: \pm (5 + 2 \text{ ppm x D}) \text{ mm}$			
			$300 \sim 500 \text{ m}: \pm (10 + 2 \text{ ppm x D}) \text{ mm}$			
	Measuring method		500 ~ 800 m: ± (20 + 10 ppm x D) mm			
	Detection method		Absolute rotary encoder			
	Detection method		Vertical / Horizontal angle			
	AA***	0.111.1.0.511.1.111.1.511		ides		
	Minimum count	0.1" / 0.5" / 1" / 5"		/ 5"	F#	
	Accuracy (ISO 17123-3)	1"	2"	3"	5″	
	Axis			axis		
	Range		± 3' 1 Seed / Clamping (< 30")			
Tangent Screw	Distriction					
Sensitivity of Vials	Plate level		30"/1 div. (electrical)			
DI	Circular level		8/2 mm			
Plummet			Visible Laser, ± 0.5 mm (instrument height 1.5 m)			
Base			Detachable (Fig. 1)			
Dust and Water Protection			IP55 (instrument only)			
Ambient Temperature			-20°C ~ 50°C / -4°F ~122°F (Working range)			
Tripod Thread	B: :		5/8" x 11			
Dimensions / Weight	Dimensions	183 (W) x 342 (H) x 167 (L) mm				
	Weight (battery not incl.)		5.4 kg			
Carrying Case	Dimensions / weight		440 (W) x 370 (H) x 275 (L) mm /3.9 kg			
Battery Pack	Power source	Li-ion 3,350 mAh X 2 = 6,700 mAh (hotswap)				
	Operation time	Continuous approx. 10.0 hrs (ETH+EDM) with approx. 2.5 hrs of charging time				
	Weight		5.4	kg		
Battery Charger and AC Adapter			15.400	2401/		
	Input voltage) ~ 240V		
Data Process	Output voltage			7.4V		
	CPU Memory/Clock frequency			28 MHz		
	OS .			ndows CE 7.0		
	Application software			table		
	I/F			th(Class 2), USB Flash Drive		
Display / Keyboard	Display type			x 240 dots) touch screen		
	Quantity			2		
	Keys			each		
Display Back Light				es		
Laser Pointer				es		
Date Clock			Y	es		

- *1 The measurement range and accuracy of reflectorless, and time required to measure may vary by the shape, size of surface area and reflection rate of the target and its environment. The measurement range of reflectorless is determined by the white side of the Kodak Grav Card.

- the Kodak Gray Card.

 2 Reflector sheet: Genuine Reflector sheet

 3 The measurement range may vary by conditions of the environment.

 Normal conditions: 20km visibility with slight shimmer

 Good conditions: 40km visibility with overcast, no heat, no shimmer and moderate wind.

 4 EDM measuring time is determined in good conditions. It may takes longer than usual to measure the distance exceeding 2000m in prism mode and 300m in reflectorless mode.

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DANGER R RADIATION - DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENT INTO SUNLIGHT 620-690 nm/4,75mW max. CLASS IIIa LASER PRODUCT Laserclass Illa, conform FDA 21 CFR Ch. 1 § 1040

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