

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		
istance Measurement	Laser class		Visible Laser: Class IIIa (Reflectorless, sheet) / Class I (Prism)		
Measurement Range	(Good condition) (*3)				
	Reflectorless (*1)		800 m		
	Reflector sheet (*2)		800	m	
	Mini Prism		1,200 m		
	Prism 1P		3,000 m		
	Prism 3		4,000 m		
Accuracy (*4)	Prism		\pm (2 + 2 ppm x D) mm		
	Reflector Sheet		± (3 + 2 ppm x D) mm		
	Reflectorless		2 ~ 150 m: ± (3 + 2 ppm x D) mm		
			$150 \sim 300 \text{ m}$: $\pm (5 + 2 \text{ ppm x D}) \text{ mm}$		
			300 ~ 500 m: ± (10 + 2 ppm x D) mm		
			500 ~ 800 m: ± (20 + 10 ppm x D) mm		
Angle Measurement	Measuring method		Absolute rotary encoder		
	Detection method		Vertical / Horizontal angle		
			2 sides		
	Minimum count	0.1" / 0.5" / 1" / 5"	1" / 5"		
	Accuracy (ISO 17123-3)	1"	2"	3"	5"
Compensator	Axis		2 axis		
	Range		± 3'		
ingent Screw			1 Seed / Clamping (< 30")		
Sensitivity of Vials	Plate level		30"/1 div. (electrical)		
	Circular level		8'/2 mm		
ummet			Visible Laser, ± 0.5 mm (instrument height 1.5 m)		
ise			Detachable		
ust and Water Protection			IP55 (instrument only)		
mbient Temperature			-20°C ~ 50°C / -4°F ~122°F (Working range)		
ipod Thread			5/8" x 11		
Dimensions / Weight	Dimensions		183 (W) x 342 (H) x 167 (L) mm		
	Weight (battery not incl.)		5.4 kg		
arrying 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 k		
attery Charger and AC Adapter				-	
Data Process	Input voltage		AC 100 -	~ 240V	
	Output voltage		DC7.		
	CPU Memory/Clock frequency		4GB/528	3 MHz	
	OS		Microsoft Win	dows CE 7.0	
	Application software		Select		
	I/F		RS232C, USB mini, Bluetootl		
Display / Keyboard	Display type		3.5" colour TFT LCD (320 x		
	Quantity		2	·	
	Keys		26 each		
isplay Back Light	-/-		Yes		
aser Pointer			Yes		
ate Clock			Yes		

- *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 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 SUBULISHT 620-690 nm/4.75mW max.
CLASS Illa LASER PRODUCT erclass Illa, conform FDA 27 CFR
Ch. 1 § 1040



LASER RADIATION - DO NOT STARE INTO BEAM 620-690 nm/0.95mW max. CLASS II LASER PRODUCT Laserclass II, conform FDA 21 CFR Ch. 1 § 1040



ISO

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