## PENTAX Total Surveying Solutions W-2800N Series W-2801N W-2803N W-2805N

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WinCE Operating System

+ A truly integrated system

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- + Long EDM range: reflectorless up to 800 m and in prism mode up to 3,000 m
- + 3.5" Display with touch screen
- + Easy transfer to a PC via, USB mini, RS-232C data port and USB Flash Drive

TI Asahi Co.,Ltd Aiming at the future together! ۲

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## **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 Illa ( 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 (Standard)		
			$\pm$ (1.5 + 2 ppm x D) mm (Optional)		
	Reflector Sheet		$\pm$ (13 + 2 ppm x D) mm		
	Reflectorless		$2 \sim 150 \text{ m} \pm (3 + 2 \text{ ppm x D}) \text{ mm}$		
			$150 \sim 300 \text{ m} \pm (5 + 2 \text{ ppm x D}) \text{ mm}$		
			$300 \sim 500 \text{ m}: \pm (10 + 2 \text{ ppm x D}) \text{ mm}$		
			$500 \approx 300$ m: $\pm (10 \pm 2 \text{ ppm x D})$ mm		
Angle Measurement	Measuring method		Absolute rotary encoder		
	Detection method		Vertical / Horizontal angle		
	Detection method		2 sides		
	Minimum count	0.1" / 0.5" / 1" / 5"	1"/5"		
	Accuracy (ISO 17123-3)	1"	2"	3″	5″
Compensator	Accuracy (ISO 17 123-3)	I	2		J
			2 d. 		
an gant Covary	Range		1 Seed / Clamping (< 30")		
Tangent Screw Sensitivity of Vials Plummet	Plate level		30"/1 div. (		
	Circular level		8//2 mm		
			Visible Laser, ± 0.5 mm (instrument height 1.5 m)		
lase			Detachable		
Oust and Water Protection			IP55 (instrument only)		
Ambient Temperature			-20°C ~ 50°C / -4°F ~122°F (Working range)		
ripod Thread			5/8″ x 11		
Dimensions / Weight	Dimensions	183 (W) x 342 (H) x 167 (L) mm			
	Weight (battery not incl.)		5.4	0	
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	kg	
Battery Charger and AC Adapter					
	Input voltage		AC 100 ~ 240V		
	Output voltage		DC7.4V		
Data Process	CPU Memory/Clock frequency	4GB/528 MHz			
	OS	Microsoft Windows CE 7.0			
	Application software		Select	table	
	I/F	RS232C, USB mini, Bluetooth(Class 2), USB Flash Drive			
Display / Keyboard	Display type	3.5" colour TFT LCD (320 x 240 dots) touch screen			
	Quantity	2			
	Keys	26 each			
Display Back Light			Ye	S	
Laser Pointer			Yes		
Date Clock			Ye		

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\* Designs and specifications are subject to change without notice. - Printed in Belgium - LEAF-W2800N-EN-1808- © PENTAX 2018

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\*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. Reflector sheet: Genuine Reflector sheet 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. \*7

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\*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.

## www.pentaxsurveying.com/en/



TI Asahi Co., Ltd.





ISO 9001:2008

JSIMA Japan Surveying Instruments Manufacturers' A Member symbol of the Japan Surveying Instruments Manufacturers' Association representing the high quality surveying products.

CAUTION

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

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