PENTAX | Total Surveying W-2800N Series Solutions

W-2801N | W-2802N | W-2803N | W-2805N

- + A truly integrated system
- + Long EDM range: reflectorless up to 800 m and in prism mode up to 4,000 m
- + 3.5" Display with touch screen
- + Easy transfer to a PC via SD card, USB mini, RS-232C data port and USB Flash Flash Drive

4

+ Bluetooth Class2

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

V-28011

PENTAX

Technical Specifications W-2800N Series Total Station

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°20′			
	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)				
	Reflectorless (*1)	800 m			
	Reflector sheet (*2)	800 m			
	Mini Prism	1,200 m			
	Prism 1P	3,000 m			
	Prism 3		5,000 m		
Accuracy (*4)	Prism		± (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 ~ 300 m: ± (5 + 2 ppm x D) mm			
			300 ~ 500 m: ± (10 + 2 ppm x D) mm		
			500 ~ 800 m: ± (20 + 10 ppm x D) mm		
Angle Measurement Compensator	Measuring method	Absolute rotary encoder			
	Detection method		Vertical / Horizontal angle		
			2 sic		
	Minimum count	0.5″/			/ 5″
	Accuracy (ISO 17123-3)	1″	2″	3″	5″
	Axis	2 axis			
	Range		$\pm 3'$		
Tangent Screw			1 Seed / Clamping (< 30")		
Sensitivity of Vials	Plate level	30"/1 div. (electrical)			
	Circular level	8/2 mm			
Plummet		Visible Laser, ± 0.5 mm (instrument height 1.5 m)			
Base		Detachable			
Dust and Water Protection		IP55 (instrument only)			
Ambient Temperature		-20°C ~ 50°C / -4°F ~122°F (Working range)			
Tripod Thread			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 Data Process			15.100	2401	
	Input voltage		AC 100 ~ 240V		
	Output voltage		DC7.4V		
	CPU Memory/Clock frequency	4GB/528 MHz			
	OS	Microsoft Windows CE 7.0			
	Application software	Selectable			
Diamlass / Kassh a sud	I/F	RS232C, USB mini, Bluetooth(Class 2), USB Flash Drive 3.5" colour TFT LCD (320 x 240 dots) touch screen			
Display / Keyboard	Display type			,	
	Quantity	2			
	Keys		26 each		
Display back light			Ye	-	
Laser Pointer			Ye	c	

*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

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. *3

*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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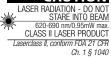






ISO

ISO 9001:2008



CAUTION



