

# LEICA Instrument EDM Specifications

Series	Model	Example Model Names	Angular Accuracy	Year of make	InfraRed						Reflectorless					
					Accuracy	Wavelength (nm)	Frequency (mHz)	Unit Length (m)	VC1	VC2	Accuracy	Wavelength (nm)	Frequency (mHz)	Unit Length (m)	VC1	VC2
OLD Model Clip-on EDM's	DI3000	n/a	n/a	1990-1993	3mm ± 1ppm	865	15	10	282.00	79.30	n/a					
	DI1000	n/a	n/a	1987-1990	5mm ± 5ppm	865	7.5	20	282.00	79.20						
	DI1001	n/a	n/a	1989-2001	5mm ± 5ppm											
	DI1600	n/a	n/a	1989-2001	3mm ± 2ppm											
	DI2002	n/a	n/a	1989-2001	1mm ± 1ppm											
	TC1010	n/a		1992-1995	3mm ± 2ppm											
	TC1610	n/a		1991-1995	3mm ± 2ppm											
	TC500	n/a		1992-1995	5mm ± 5ppm											
	TC600	n/a		1994-1998	3mm ± 3ppm											
	TC605	n/a		1996-1999												
TC805	n/a		1997-2000	2mm ± 2ppm												
TC, TCM, TCA TPS1000	1100	TCM1100	3	1995-2001	2mm ± 2ppm	850	50	3	281.80	79.39						
	1500	TCA1500	2													
	1700	TC1700	1.5													
	1800	TCM1800	1													
TC, TCA TPS2000	2000	TC2000	0.5	1985-1987	1mm ± 2ppm	780	100	1.5	283.05	79.746						
	2002	TC2002	0.5	1990-1997												
	2003	TCA2003	0.5	1997-												
TPS5000	TM, TDA, TDM	TM5000, TM5100A, TDA5005	0.5	1996-	0.2mm											
TPS100	TC110C, TCR110C	TCR110	10	2000-2005	2mm ± 2ppm	780	100	1.5	283.05	79.746	670	100	1.5	285.93	80.56	
TPS300	TC, TCR	TCR305	3, 5, 7	1998-2003												
TPS400	TC, TCR	TCR407	3, 5, 7, 10	2002-2007												
TPS700	TCR, TCRAuto	TCR703Auto	2, 3, 5	1999-2008												
TPS800	TC, TCR	TCR803	2, 3, 5	2004-2007												
TPS1100	TC, TCR, TCM, TCRM, TCA, TCRA	TCRM1103, TCA1105	1.5, 2, 3, 5	1998 - 2004												
TPS1200	TC, TCR, TCM, TCRM, TCA, TCRA, TCP, TCPRP	TC1205, TCRA1203, TCP1201	1, 2, 3, 5	2004 - 2007												
TPS400/800/1200 NEW EDM (Square Plastic Covers). Manufactured 2007	TC, TCR, TCRM	TC405, TCR805, TC1203, TCR1205	1, 2, 3, 5, 7	2007 - 2008	1mm ± 1.5ppm	660	100	1.5	286.27	80.66	<500m:2mm ± 2ppm, >500m:4mm ± 2ppm	660	100	1.5	286.34	80.66
TPS1200+	TC, TCR, TCRM, TCA, TCRA, TCP, TCPRP	TCR1205+, TCRA1203+, TCP1201+	1, 2, 3, 5	2008 -	1mm ± 1.5ppm	660	100	1.5	286.27	80.66	<500m:2mm ± 2ppm, >500m:4mm ± 2ppm	660	100	1.5	286.34	80.66
FlexLine	TS02	TS02 Ultra - 5"	3, 5, 7	2009 -	1.5mm ± 2ppm	660	100	1.5	286.27	80.66	2mm ± 2ppm	660	100	1.5	286.34	80.66
	TS06	TS06 Ultra - 3"	2, 3, 5	2009 -							2mm ± 2ppm					
	TS09	TS09 Ultra - 1"	1, 2, 3	2009 -							2mm ± 2ppm					

## Leica Total Station model naming conventions

DI = Distomat EDM  
 TC = Total Station  
 R = Reflectorless  
 M = Motorised  
 A = Automatic Target Recognition  
 Auto = Automatic Target Recognition  
 P = PowerSearch

Leica Total Stations without the letter "R" in the model name have InfraRed EDM only.

Leica Total Stations with the letter "R" in the model name have InfraRed EDM and Reflectorless EDM as well.

The "M", "A" & "P" models are independent of the EDM types.

The angular accuracy is currently designated in the model name but this was not the case in the past. Eg TC1105 is a 5 second model, TC1800 was a 1 second model.

The reflectorless EDM has had 2 ranges available (Std range and Xrange) both with the same wavelength specs.

TPS1000 / TPS1100. The models of these 2 series of instruments can be confused. The TPS1000 series has a model named TC (M) (A)1100. The TPS1100 series model names all end with the angular accuracy eg TC1103.

Figures adopted by Lands Victoria - have not been verified by C R Kennedy