$\underset{\text{No.}}{^{\text{Catalog}}}72961_{\text{B}}$





Digest Version

Digital Tachometers/ Counters

DIGITAL TACHOMETERS DIGITAL STROBO SCOPES DIGITAL COUNTERS

NIDEC DRIVE TECHNOLOGY CORPORATION

Nidec Shimpo Corporation change its company name to Nidec Drive Technology Corporation on April 1, 2023.

DIGEST LINE UP

Digital Tachometers/Counters

	Panel Mount Dig	gital Tachomete	rs		Ratio Meter	rs Counter
Low price/Basic input type	Low price/Basic input type	Low price/Differential input	type High function	type	Ratio Meters	With 2-step preset output
DT-501XA	DT-5TS	DT-5TL	DT-5T s	eries	DT-5TXR Serie	»s DT-601CG
			_		DT-5TFR Serie	<u>es</u>
Alterna						
DODDDD	-0000033	-000000	-000000	-	000000	Renna Lett
008668	-0888888 BBBBBBB - BBBBBBB	- 668668 -666666	-688888	8	-888888 -888888 -888888	00.0.8.8.8
No. No.						
P3	P4		P4	P5		P6 P7
		На	andy Type			
For both non-contact/contact t	ypes Contact type/LCD	display Contact	type/LED display	Low pric	e/contact type	Low price/non-contact type
DT-205Z	DT-105N (with Ty	vpe-6 foil) DT-107	(with Type-6 foil)	EE-1	В	EE-2B
	DI-105NS (with Ty	<u>DI-10/N</u>	S (with Type-12 foil)			
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999999			Allen		J. C. C.	
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		ALL CONTRACTOR	7	1		
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	P8	P9	P10		P11	P11

# **Digital Stroboscopes**



# Panel Mount Digital Tachometers

Specifications



## **Digital Tachometer** DT-501XA (Basic input)

			, o
	Mem	ory function	Can store the maximum/minimum mea
Tachometer	Compa	arator function	Can display the settings of the upper limit, lower limit, upper
umecounter span	Aut	o zero time	0.1 to 150 se
	Pre-arit	hmetic function	Updates the dis
• The largest digit size in the industry (22mm	Teacl	ning function	Performs scaling automatically by set
nign)	Po	wer supply	
increases the indication size by 46%, compared	Input	signal scope	Ope
with conventional products.	Insulat	ion resistance	
<ul> <li>The smallest depth in the industry (92mm)</li> </ul>	Vol	tage proof	
Shortens the depth to 84% of that of	Operati	ng temperature	
conventional products.	Opera	ating humidity	
	Oporati	ng atmosphoro	
	Confor	ming attroophere	
Easy installation with a new one-touch mechanism	Conior	ming standard	Freed
	Protei		From
	Extern	al dimensions	
		Weight	
22mm 8888999	Dimer	nsional draw	ing
			C .
92mm	-	9	1.5
	=		
	Γ	mer n son NOLVNO	
Emits evenly in large digits.	i i	01 8 90 90 90 90 90 90 90 90 90 90 90 90 90	
		nni	
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	יי רן		
	HI		
			UUUUUUUUUUUUUUUUUUUUU
	Ц		
	-	101.5 (Mounting	adapter width)
	-	9	<u>6</u>
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	HU		
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Peripheral speed measurement of the roller	r	1	Fransit time display in the oven
			1
$\sim$			
			Oven
$\sim$ / $\square$			5m
	501□		
	10		<b>  "</b> (◊
	10		
			Rotary encoder
			RE
Feed roller			
(diameter: 90mm)			0000
			DT-501
Rotary encoder			The second se

Operation mode         Tachometer mode         Flowmeter mode         Transit timecounter mode         Time span mode           Display 1         0 to 99999         00000 to 59:59         (hour, minute, second, base 60 display)         (hour, minute, second, base 60 display)           Display 2         -         0:00 to 99:99 (second: 1/100 sec, base 10 display)         (hour, minute, second, base 60 display)           Decimal point position         10 ⁻¹ to 10 ⁻³ -         -           Number indicator         Red 7 segment LED, font height 22mm, 6 digits, (-) display av-ilable         -           LED lamp         8 (SIG, LL, L, H, HH, MAX, MIN, TEA)         0.0067Hz to 100KHz         10ms to 3600s           Measurement accuracy         -         10ms to 3600s         ±0.01%±1/digit         ±0.01%±1/digit           Filter         Switchs amog 100Hz, 30Hz, 10Hz, and 0.2Hz sing parameters. Net lat you can switch between only 10Hz and 0.2Hz to a magnetic sense, and is contact sonly 0.02Hz         10ms to 3600s           Pre-scale function         Parameter setting system using the front panel keys. The teaching (combination) of display values are also available.         40.1%±1/digit           Memory function         Can store the maximum/minimum measurement values in memory, and display in the indicator. (Switches' the display using the MEM key           Comparator function         Candpaip the sting of theigoei upaiper imit, and one-keyer imit, asel a judgmet reals on		Model	DT-501XA					
Display 1         0 to 99999 6 digits         00000 to 59959 (hor, minute, second, base 60 display)         00000 to 05959 (hor, minute, second, base 60 display)           Display 2         -         0:00 to 999:99 (second: 1/100 sec, base 10 display)           Decimal point position         10° to 10°         -           Number indicator         Red 7 segment LED, font height 22mm, 6 digits, (-) display available         -           LED lamp         8 (SIG ,LL ,L, H, HH, MAX, MIN, TEA)         -           Operation key         5 (SET/SHIFT, MEM/TEACH, UP/PARA, RIGHT/FUNC, ENT/MODE)         10ms to 3600s           Input range         0.0067Hz to 100KHz         10ms to 3600s           Measurement accuracy         ±0.1%±1 digit         ±0.1%±1 digit           Filter         Switches among 100k±, 30k±, 10k±, and 02k± using parameters. Net that you can switch between only 10k± and 02k± bit a magnetic sexor, and is contact sonly 02k±           Display cycle         0.2, 0.5, 1, 2, 5, 10, 15, 30, 60 sec (can be changed in the parameter settings)         Dependent on the input signa           Pre-scale function         Parameter setting system using the front panel keys. The teaching (combination) of display using the MEM key           Comparator function         Can store the maximum/minimum measurement values in memory, and display in the indicator. (Switches the display using the MEM key           Pre-arithmetic function         Pupdates the displayed value according to the elapsed t		Operation mode	Tachometer mode Flowmeter mode		Transit timecounter mode	Time span mode		
g         [hour, minute, second, base 60 display]         [hour, minute, second, base 60 display]           Display 2         -         0:00 to 999:99 (second: 11/100 sec, base 10 display)           Decimal point position         10 ⁻¹ to 10 ⁻⁵ -           Number indicator         Red 7 segment LED, font height 22mm, 6 digits, (-) display available           LED lamp         8 (SIG, LL, L, H, HH, MAX, MIN, TEA)           Operation key         5 (SET/SHIFT, MEM/TEACH, UP/PARA, RIGHT/FUNC, ENT/MODE)           Input range         0.0067Hz to 100kHz         10ms to 3600s           Measurement accuracy         ±0.1%±1 digit         ±0.1%±1 digit           Filter         Switchs among 100Hz, 30Hz, 10Hz, and 0.02Hz tang parameter. Note that you can switch between only 10Hz and 0.02Hz in a magnetic sensor, and its ontact is only 0.02Hz           Display cycle         0.2, 0.5, 1, 2, 5, 10, 15, 30, 60 sec (can be changed in the parameter settings)         Dependent on the input signa           Pre-scale function         Parameter setting system using the front panel keys. The teaching (combination) of display using the MEM key           Comparator function         Can display during the displayed value according to the elapsed time after the pulse stops.           Pre-arithmetic function         Updates the displayed value according to the elapsed time after the pulse stops.           Power supply         AC85 to 264V (50/60Hz)           Input signal sc	₽	Display 1	0 to 9	99999	0:00:00 to 9:59:59	0:00:00 to 0:59:59		
	spla	Diopidy	6 di	gits	(hour, minute, second, base 60 display)	(hour, minute, second, base 60 display)		
With zero suppression function           Decimal point position         10°1 to 10°5         -           Number indicator         Red 7 segment LED, font height 22mm, 6 digits, (-) display available           LED lamp         8 (SIG, LL, L, H, HH, MAX, MIN, TEA)           Operation key         5 (SET/SHIFT, MEM/TEACH, UP/PARA, RIGHT/FUNC, ENT/MODE)           Input range         0.0067Hz to 100kHz         10ms to 3600s           Measurement accuracy         ±0.008%±1digit         ±0.1%±1digit           Filter         Switches among 100kHz, 30kHz, 10kHz, and 0.02kHz using parameters. Note that you can switch between only 10kHz and 0.02kHz is only 0.02kHz         Digplay cycle         0.2, 0.5, 1, 2, 5, 10, 15, 30, 60 sec (can be changed in the parameter settings)         Dependent on the input signa           Pre-scale function         Parameter setting system using the front panel keys. The teaching (combination) of display values are also available.           Auto zero time         0.1 to 150 seconds         0.1 to 3600 seconds           Pre-arithmetic function         Updates the displayed value according to the elapsed time after the pulse stops.           Teaching function         Performs scaling automatically by setting the display value with a certain signal input. (only in the tachometer and flowmeter modes)           Power supply         AC85 to 264V (So/KOHz)         Input signal scope           Operating temperature         0 to 45°C (No condensation)	Ϋ́ε	Display 2		-	0:00 to 999:99 (second: 1	/100 sec, base 10 display)		
Decimal point position         10 ⁻¹ to 10 ⁻⁵ -           Number indicator         Red 7 segment LED, font height 22mm, 6 digits, (-) display available           LED lamp         8 (SIG , LL , L , H , HH , MAX , MIN , TEA)           Operation key         5 (SET/SHIFT , MEM/TEACH , UP/PARA , RIGHT/FUNC , ENT/MODE)           Input range         0.0067Hz to 100kHz         10ms to 3600s           Measurement accuracy         ±0.106%±1 digit         ±0.1%±1 digit           Filter         Switches among 100Hz, 30Hz, 10Hz, and 0.02Hz using parameters. Note that you can switch between only 10Hz and 0.02Hz to any \$\stringstart estimation of display values are also available.           Display cycle         0.2, 0.5, 1, 2, 5, 10, 15, 30, 60 sec (can be changed in the parameter settings)         Dependent on the input signa           Pre-scale function         Parameter setting system using the front panel keys. The teaching (combination) of display values are also available.           Memory function         Can store the maximum/minimum measurement values in memory, and display in the indicator. (Switches the display using the MEM key           Comparator function         Qard spire find, burger upper lind, and our-low-low lind, as well a judgmet results on the LED lamp. Can also perform the hystersis string of the upper and lower lind value according to the elapsed time after the pulse stops.           Pre-arithmetic function         Updates the displayed value according to the elapsed time after the pulse stops.           Performs scalin				With zero suppr	ression function			
Number indicator         Red 7 segment LED, font height 22mm, 6 digits, (-) display available           LED lamp         8 (SIG, LL, L, H, HH, MAX, MIN, TEA)           Operation key         5 (SET/SHIFT, MEM/TEACH, UP/PARA, RIGHT/FUNC, ENT/MODE)           Input range         0.0067Hz to 100kHz         10ms to 3600s           Measurement accuracy         ±0.1%±1digit         ±0.1%±1digit         ±0.1%±1digit           Filter         Switches among 1004bz, 304bz, 104bz, and 0.02kHz using parameters. Note that you can switch between only 104bz and 0.02kHz in a magnetic sensor, and its contact is only 0.02kHz         Dependent on the input signa           Pre-scale function         Parameter setting system using the front panel keys. The teaching (combination) of display values are also available.         Memory function         Can dsplay the setting of the upper unit, dowe-lower limit, as well apidgment results on the ED lamp. Can also perform the hysteresis setting of the upper and lower limit values         0.1 to 150 seconds         0.1 to 1600 seconds           Pre-arithmetic function         Updates the displayed value according to the elapsed time after the pulse stops.         Performs scaling automatically by setting the display value with a certain signal input. (only in the tachmeter and flowmeter modes)           Power supply         AC85 to 264V (50/60Hz)         Insulation resistance         IOMΩ or more (at DC500V Mega)           Insulation resistance         10MΩ or more (at DC500V Mega)         Voltage proof         AC1500V or more 1 min <td>De</td> <td>ecimal point position</td> <td>10⁻¹ t</td> <td>o 10⁻⁵</td> <td></td> <td>-</td>	De	ecimal point position	10 ⁻¹ t	o 10 ⁻⁵		-		
LED lamp         8 (SIG, LL, L, H, HH, MAX, MIN, TEA)           Operation key         5 (SET/SHIFT, MEM/TEACH, UP/PARA, RIGHT/FUNC, ENT/MODE)           Input range         0.0067Hz to 100kHz         10ms to 3600s           Measurement accuracy         ±0.1%±1digit         ±0.1%±1digit           Filter         Switches among 100kHz, 30kHz, 10kHz, and 0.02kHz using parameters. Note that you can switch between only 10kHz and 0.02kHz in a magnetic sensor, and its contact is only 0.02kHz           Display cycle         0.2, 0.5, 1, 2, 5, 10, 15, 30, 60 sec (can be changed in the parameter settings)         Dependent on the input signa           Pre-scale function         Parameter setting system using the front panel keys. The teaching (combination) of display values are also available.           Comparator function         Can store the maximum/minimum measurement values in memory, and display in the indicator. (Switches the display using the MEM key/           Comparator function         Can store the oper limit, one vinit, uppe-upper limit, and lowe-lower limit, as wel as ignare results on the LBI anp. Can also perform the steresis stilling of the upper and lower limit also and tablay in the indicator. (Switches the display using the MEM key/           Comparator function         Updates the displayed value according to the elapsed time after the pulse stops.           Pre-arithmetic function         Updates the displayed value with a certain signal input. (only in the tachometer and flowmeter modes)           Power supply         AC85 to 264V (50/60Hz)         Input		Number indicator	Red 7	segment LED, font height 2	2mm, 6 digits, (-) display av	ailable		
Operation key         5 (SET/SHIFT, MEM/TEACH, UP/PARA, RIGHT/FUNC, ENT/MODE)           Input range         0.0067Hz to 100kHz         10ms to 3600s           Measurement accuracy         ±0.008%±1digit         ±0.1%±1digit           Filter         Switches among 100kHz, 30kHz, 10kHz, and 0.02kHz using parameters. Note that you can switch between only 10kHz and 0.02kHz in a magnetic sensor, and its contact is only 0.02kHz         Display cycle         0.2, 0.5, 1, 2, 5, 10, 15, 30, 60 sec (can be changed in the parameter settings)         Dependent on the input signa           Pre-scale function         Parameter setting system using the front panel keys. The teaching (combination) of display values are also available.         Memory function         Can store the maximum/minimum measurement values in memory, and display in the indicator. (Switches the display using the MEM key/           Comparator function         Can store the maximum/minimum measurement values in memory, and usplay in the ED amp. Can store the display the upper limit, apper-upper limit, as well as judgment results on the ED amp. Can store the display of the upper limit, and wer-lower limit, as well as judgment results on the ED amp. Can store the display dive using a corrding to the elapsed time after the pulse stores.           Teaching function         Updates the displayed value according to the elapsed time after the pulse stores.           Insulation resistance         Open collector, contact, voltage pulse, magnetic sensor           Insulation resistance         Open collector, contact, voltage pulse, magnetic sensor           Insulation re		LED lamp		8 (SIG ,LL ,L ,H ,HI	H ,MAX ,MIN ,TEA)			
Input range         0.0067Hz to 100kHz         10ms to 3600s           Measurement accuracy         ±0.008%±1digit         ±0.1%±1digit           Filter         Switches among 100kHz, 30kHz, 10kHz, and 0.02kHz uing parameters. Note that you can switch between only 10kHz and 0.02kHz in a magnetic sensor, and its contact is only 0.02kHz           Display cycle         0.2, 0.5, 1, 2, 5, 10, 15, 30, 60 sec (can be changed in the parameter settings)         Dependent on the input signa           Pre-scale function         Parameter setting system using the front panel keys. The teaching (combination) of display values are also available.           Memory function         Can store the maximum/minimum measurement values in memory, and display in the indicator. (Switches the display using the MEM key.           Comparator function         Can display the setting of the uper limit, uper-uper limit, as well as judgnent results on the EDIamp. Can stop profim the hysteresis setting of the uper and ower limit use.           Pre-arithmetic function         Updates the displayed value according to the elapsed time after the pulse stops.           Teaching function         Performs scaling automatically by setting the display value with a certain signal input. (only in the tarboreter and flowmeter modes)           Power supply         ACBS to 264V (50/60Hz)         Input signal scope         Open collector, contact, voltage pulse, magnetic sensor           Insulation resistance         10MΩ or more (at DC500V Mega)         Voltage proof         AC1500V or more 1min <t< td=""><td></td><td>Operation key</td><td>5 (SE</td><td>T/SHIFT ,MEM/TEACH ,UP/I</td><td>PARA ,RIGHT/FUNC ,ENT/M</td><td>10DE)</td></t<>		Operation key	5 (SE	T/SHIFT ,MEM/TEACH ,UP/I	PARA ,RIGHT/FUNC ,ENT/M	10DE)		
Measurement accuracy         ±0.008%±1 digit         ±0.1%±1 digit           Filter         Switches among 100kHz, 30kHz, 10kHz, and 0.02kHz using parameters. Note that you can switch between only 10kHz and 0.02kHz in a magnetic sensor, and its contact is only 0.02kHz         Dependent on the input signa           Pre-scale function         Parameter setting system using the front panel keys. The teaching (combination) of display values are also available.           Memory function         Can store the maximum/minimum measurement values in memory, and display in the indicator. (Switches the display using the MEM key.           Comparator function         Can display the setting of the upper limit, upper-upper limit, as well as judgment teats on the ED lanp. Can shop promite hysteresis setting of the upper and ower limit upper-upper limit, as well as judgment teats on the ED lanp. Can shop promite hysteresis setting of the upper limit, upper-upper limit, as well as judgment teats on the ED lanp. Can shop promite hysteresis setting of the upper and ower limit upper-upper limit, as well as judgment teats on the ED lanp. Can shop promite hysteresis setting of the upper and ower limit upper-upper limit, as well as judgment teats on the ED lanp. Can shop promite hysteresis setting of the upper limit upper-upper limit, as well as judgment teats on the ED lanp. Can shop promite hysteresis setting of the upper limit upper-upper limit, as well as judgment teats on the ED lanp. Can shop promite hysteresis setting of the upper limit, upper-upper limit, as well as judgment teats on the ED lanp. Can shop promite hysteresis setting of the upper limit, upper-upper limit, as well as judgment teats on the ED lanp. Can shop promite hysteresis setting of the upper limit, upper limit, as well as judgment teats on the ED lanp. Can shop the prom		Input range		0.0067Hz to 100kHz		10ms to 3600s		
Filter         Switches among 100kHz, 30kHz, 10kHz, and 0.02kHz using parameters. Note that you can switch between only 10kHz and 0.02kHz in a magnetic sensor, and its contact is only 0.02kHz           Display cycle         0.2, 0.5, 1, 2, 5, 10, 15, 30, 60 sec (can be changed in the parameter settings)         Dependent on the input signa           Pre-scale function         Parameter setting system using the front panel keys. The teaching (combination) of display values are also available.           Memory function         Can store the maximum/minimum measurement values in memory, and display in the indicator. (Switches the display using the MEM key           Comparator function         Can display the settings of the upper limit, were upper limit, as well as judgment results on the LDI anp. Can do perform the hysteresis setting of the upper and lower limit as well as judgment results on the LDI anp. Can do perform the hysteresis setting of the upper and lower limit as well as judgment results on the LDI anp. Can do perform the hysteresis setting of the upper and lower limit as well as judgment results on the LDI anp. Can do perform the hysteresis setting of the upper and lower limit as well as judgment results on the LDI anp. Can do perform the hysteresis setting of the upper and lower limit as well as judgment results on the LDI anp. Can do performs the hysteresis setting of the upper limit, due to the display value with a certain signal input. (only in the tachometer and flowmeter modes)           Proveer supply         Performs scaling automatically by setting the display value with a certain signal input. (only in the tachometer and flowmeter modes)           Power supply         Porters         Porearching furnition         Power supply<	Me	easurement accuracy		±0.008%±1digit		±0.1%±1digit		
Display cycle         0.2, 0.5, 1, 2, 5, 10, 15, 30, 60 sec (can be changed in the parameter settings)         Dependent on the input signa           Pre-scale function         Parameter setting system using the front panel keys. The teaching (combination) of display values are also available.           Memory function         Can store the maximum/minimum measurement values in memory, and display in the indicator. (Switches the display using the MEM key           Comparator function         Can display the setings of the upper limit, upper-upper limit, and lowe-lower limit, as well as judgment results on the LED larp. Can also perform the hysteresis seting of the upper and lower limit values           Auto zero time         0.1 to 150 seconds         0.1 to 3600 seconds           Pre-arithmetic function         Updates the displayed value according to the elapsed time after the pulse stops.           Teaching function         Performs scaling automatically by setting the display value with a certain signal input. (only in the tachometer modes)           Power supply         AC85 to 264V (50/60Hz)         Input signal scope           Input signal scope         Open collector, contact, voltage pulse, magnetic sensor           Insulation resistance         10MΩ or more (at DC500V Mega)           Voltage proof         AC1500V or more 1min           Operating temperature         0 to 45°C (No condensation)           Operating atmosphere         No corrosive gas           Conforming standard         RoHS		Filter	Switches among 100kHz, 30kHz, 10kHz, and	0.02kHz using parameters. Note that you can s	witch between only 10kHz and 0.02kHz in a ma	ignetic sensor, and its contact is only 0.02kHz.		
Pre-scale function         Parameter setting system using the front panel keys. The teaching (combination) of display values are also available.           Memory function         Can store the maximum/minimum measurement values in memory, and display in the indicator. (Switches the display using the MEM key           Comparator function         Can display the settings of the upper limit, upper-upper limit, as well as judgment results on the LED lamp. Can stop perform the hysteresis setting of the upper and lower limit uses           Auto zero time         0.1 to 150 seconds         0.1 to 3600 seconds           Pre-arithmetic function         Updates the displayed value according to the elapsed time after the pulse stops.           Teaching function         Performs scaling automatically by setting the display value with a certain signal input. (only in the tachometer and flowmeter modes)           Power supply         AC85 to 264V (50/60H2)           Input signal scope         Open collector, contact, voltage pulse, magnetic sensor           Insulation resistance         10MΩ or more (at DC500V Mega)           Voltage proof         AC1500V or more 1 min           Operating temperature         0 to 45°C (No condensation)           Operating tamosphere         No corrosive gas           Conforming standard         ReHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20		Display cycle	0.2, 0.5, 1, 2, 5, 10, 15, 3	0, 60 sec (can be changed i	n the parameter settings)	Dependent on the input signal		
Memory function         Can store the maximum/minimum measurement values in memory, and display in the indicator. (Switches the display using the MEM key           Comparator function         Can display the settings of the upper limit, upper-upper limit, and lowe-lower limit, as well as judgment results on the LED lamp. Can also perform the hysteresis setting of the upper and lower limit as well as judgment results on the LED lamp. Can also perform the hysteresis setting of the upper and lower limit also           Auto zero time         0.1 to 150 seconds         0.1 to 3600 seconds           Pre-arithmetic function         Updates the displayed value according to the elapsed time after the pulse stops.           Teaching function         Performs scaling automatically by setting the display value with a certain signal input. (only in the tachometer and flowmeter modes)           Power supply         AC85 to 264V (50/60H2)           Input signal scope         Open collector, contact, voltage pulse, magnetic sensor           Insulation resistance         10MΩ or more (at DC500V Mega)           Voltage proof         AC1500V or more 1 min           Operating temperature         0 to 45°C (No condensation)           Operating humidity         35 to 85%RH (No condensation)           Operating standard         ReHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)		Pre-scale function	Parameter setting system u	ising the front panel keys. The	teaching (combination) of displ	ay values are also available.		
Comparator function         Can display the settings of the upper limit, upper-upper limit, and lower-lower limit, as well as judgment results on the LED lamp. Can also perform the hysteresis setting of the upper and lower limit uses           Auto zero time         0.1 to 150 seconds         0.1 to 3600 seconds           Pre-arithmetic function         Updates the displayed value according to the elapsed time after the pulse stops.           Teaching function         Performs scaling automatically by setting the display value with a certain signal input. (only in the tachometer and flowmeter modes)           Power supply         AC85 to 264V (50/60Hz)           Input signal scope         Open collector, contact, voltage pulse, magnetic sensor           Insulation resistance         10MΩ or more (at DC500V Mega)           Voltage proof         AC1500V or more 1 min           Operating temperature         0 to 45°C (No condensation)           Operating humidity         35 to 85%RH (No condensation)           Operating standard         RoHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)		Memory function	Can store the maximum/minimum	n measurement values in memory, a	nd display in the indicator. (Switch	es the display using the MEM key)		
Auto zero time         0.1 to 150 seconds         0.1 to 3600 seconds           Pre-arithmetic function         Updates the displayed value according to the elapsed time after the pulse stops.           Teaching function         Performs scaling automatically by setting the display value with a certain signal input. (only in the tachometer and flowmeter modes           Power supply         AC85 to 264V (50/60Hz)           Input signal scope         Open collector, contact, voltage pulse, magnetic sensor           Insulation resistance         10MΩ or more (at DC500V Mega)           Voltage proof         AC1500V or more 1 min           Operating temperature         0 to 45°C (No condensation)           Operating humidity         35 to 85%H (No condensation)           Operating standard         RoHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)	С	omparator function	Can display the settings of the upper limit, lower limit, upper-upper limit, and lower-lower limit, as well as judgment results on the LED lamp. Can also perform the hysteresis setting of the upper and lower limit					
Pre-arithmetic function         Updates the displayed value according to the elapsed time after the pulse stops.           Teaching function         Performs scaling automatically by setting the display value with a certain signal input. (only in the tachometer and flowmeter modes Power supply           AC85 to 264V (50/60Hz)         Input signal scope           Input signal scope         Open collector, contact, voltage pulse, magnetic sensor           Insulation resistance         10MΩ or more (at DC500V Mega)           Voltage proof         AC1500V or more 1 min           Operating temperature         0 to 45°C (No condensation)           Operating humidity         35 to 85%RH (No condensation)           Operating standard         RoHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)		Auto zero time	0.1 to 150	) seconds	0.1 to 360	0 seconds		
Teaching function         Performs scaling automatically by setting the display value with a certain signal input. (only in the tachometer and flowmeter modes           Power supply         AC85 to 264V (50/60Hz)           Input signal scope         Open collector, contact, voltage pulse, magnetic sensor           Insulation resistance         10MΩ or more (at DC500V Mega)           Voltage proof         AC1500V or more 1 min           Operating temperature         0 to 45°C (No condensation)           Operating humidity         35 to 85%RH (No condensation)           Operating standard         RoHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)	Pr	e-arithmetic function	Updates the	displayed value according t	o the elapsed time after the	pulse stops.		
Power supply         AC85 to 264V (50/60Hz)           Input signal scope         Open collector, contact, voltage pulse, magnetic sensor           Insulation resistance         10MΩ or more (at DC500V Mega)           Voltage proof         AC1500V or more 1min           Operating temperature         0 to 45°C (No condensation)           Operating humidity         35 to 85%RH (No condensation)           Operating standard         No corrosive gas           Conforming standard         RoHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)		Teaching function	Performs scaling automatically by setting the display value with a certain signal input. (only in the tachometer and flowmeter m					
Input signal scope         Open collector, contact, voltage pulse, magnetic sensor           Insulation resistance         10MΩ or more (at DC500V Mega)           Voltage proof         AC1500V or more 1min           Operating temperature         0 to 45°C (No condensation)           Operating humidity         35 to 85%RH (No condensation)           Operating atmosphere         No corrosive gas           Conforming standard         RoHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)		Power supply		AC85 to 264	4V (50/60Hz)			
Insulation resistance         10MΩ or more (at DC500V Mega)           Voltage proof         AC1500V or more 1min           Operating temperature         0 to 45°C (No condensation)           Operating humidity         35 to 85%RH (No condensation)           Operating atmosphere         No corrosive gas           Conforming standard         RoHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)		Input signal scope		Open collector, contact, volt	tage pulse, magnetic sensor			
Voltage proof         AC1500V or more 1min           Operating temperature         0 to 45°C (No condensation)           Operating humidity         35 to 85%RH (No condensation)           Operating atmosphere         No corrosive gas           Conforming standard         RoHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)	lr	sulation resistance	10MΩ or more (at DC500V Mega)					
Operating temperature         0 to 45°C (No condensation)           Operating humidity         35 to 85%RH (No condensation)           Operating atmosphere         No corrosive gas           Conforming standard         RoHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)		Voltage proof	AC1500V or more 1min					
Operating humidity         35 to 85%RH (No condensation)           Operating atmosphere         No corrosive gas           Conforming standard         RoHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)	Op	perating temperature	0 to 45°C (No condensation)					
Operating atmosphere         No corrosive gas           Conforming standard         RoHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)	(	Operating humidity	35 to 85%RH (No condensation)					
Conforming standard         RoHS           Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)	O	perating atmosphere	No corrosive gas					
Protection function         Front panel: IP66 (or equivalent), Rear terminal block: IP20           External dimensions         W96×H48×D92mm (DIN)	С	onforming standard		Ro	HS			
External dimensions W96×H48×D92mm (DIN)	I	Protection function	F	ront panel: IP66 (or equivale	ent), Rear terminal block: IP2	0		
	E	xternal dimensions		W96×H48×D	092mm (DIN)			
Weight Approx. 200g		Weight		Approx	<. 200g			



DT-501









Low price type Digital Tachometer DT-5TS (Basic input) DT-5TL (Differential input)



Responds to various input signals.

- •Simple operation allows anyone to conduct settings.
- •Secure design with excellent waterproof properties (equivalent to IP66)
- •Equipped with various functions, such as teaching, memory, pre-scale.

•Can accept high-speed input at 100kHz

	Model		DT-5TS	/DT-5TL		
	Operation mode Tachometer mode Flowme		Flowmeter mode	Transit timecounter mode	Time span mode	
Displa	Display 1	0 to 9 6 di	99999 gits	0:00:00 to 9:59:59 (hour, minute, second, base 60 display)	0:00:00 to 0:59:59 (hour, minute, second, base 60 display)	
ay	Display 2			0:00 to 999:99 (second: 1	/100 sec, base 10 display)	
			With zero supp	ression function		
De	ecimal point position	point position 10 ⁻¹ to 10 ⁻⁵ -			-	
	Number indicator	Main display parts: Red 7 segmen	segment LED, font height 1 nt LED, font height 6.5mm, 6	5mm, 6 digits, Sub display p 6 digits+6 digits, (-) display a	oarts (2 sections): Green 7 vailable	
	Input range		0.0067Hz to 100kHz		10ms to 3600s	
Me	easurement accuracy		±0.008%±1digit		±0.1%±1digit	
	Filter	Switches among 100kHz, 30kHz, 10kHz, and 0.02kHz using parameters. Note that you can switch betwee only 10kHz and 0.02kHz in a magnetic sensor, and its contact is only 0.02kHz.				
	Display cycle 0.2, 0.5, 1, 2, 5, 10, 15, 30, 60 sec (can be changed in the parameter settings)				Dependent on the input signal	
	Pre-scale function	Parameter setting system using the front panel keys. The teaching (combination) of display values are also available.				
	Memory function	Can store the maximum/minimum measurement values in memory, and indicate using green LEDs in the sub display pa				
	Auto zero time	0.1 to 150	0 seconds			
Pr	e-arithmetic function	Updates the displayed value according to the elapsed time after the pulse stops.				
	Power supply	AC specifications: 85 to 264V (50/60Hz), DC specifications: 9 to 35V				
	Input signal scope	Basic input: Open collector, contact, voltage pulse, magnetic sensor Differential Input: Differential signal				
Ir	sulation resistance	10MΩ or more (at DC500V Mega)				
	Voltage proof	AC1500V or more 1min				
	Noise resistance	Supply terminal normal/common mode ±1500V				
\	/ibration resistance	Complies with JIS C-0911, vibrational frequency: 10 to 55Hz, half amplitude: 0.5mm, 10 minutes for each XYZ direction				
Op	perating temperature	0 to 45°C (No condensation)				
(	Operating humidity		35 to 85%RH (N	lo condensation)		
Op	perating atmosphere		No corro	osive gas		
F	Protective functions	F	ront panel: IP66 (or equivale	ent), Rear terminal block: IP2	0	
E	xternal dimensions		W96×H48×E	092mm (DIN)		
	Weight	300g				

#### Dimensional drawing

Specifications









Δ

# **Panel Mount Digital Tachometers**



High function type **Digital Tachometer DT-5TXR** (Basic input) **DT-5TFR** (Differential input) DT-5TVR (Voltage/current input series)



Tachomete

Responds to various input signals.

• Easy to add and change various input and output functions.

lowmete

- It can be achieved only by replacing the optional board. (Options are sold separately)
- *It can also support ratio meters in combination with the ratio input options (sold separately). (For details, contact us.)
- Can check the upper and lower limit values at a glance using 2 sub indicators.
- •Can be used in environments subject to a large amount of water, such as the food industry, with higher waterproof properties. (Equivalent to IP66)
- •Requires no complicated calculation, and implements the teaching function that enables optional changes of display values and error modifications.
- Can accept high-speed input at 100kHz (DT-5TX, DT-5TF)
- •Equipped with the memory function to store and display the maximum and minimum values



Display of the revolution speed in the pressing machine

# DT-5TXR 1 •••

	Model	DT-5TXB/DT-5TFB							
	Operation mode	Tachometer mode Elowmeter mode Transit timecounter mode Time span m						Time span mode	
	Display 1	0 to 999999 6 digits			0:00:00 t	o 9:59:59 nd base 60 display)	0:00:00 to 0:59:59		
splay	Display 2	-			(1000)	0:00 to 999:99 (cocond: 1/100 coc baca 10 display)			
					With zoro o	(Sec	(second: 1/100 sec, base 10 display)		
De	cimal point position	with zero suppression function							
De	Display parts	IU TO IU						mm 6 digits+6 digits (-) display available	
	Input range	main alopidy partor riod r		0.00	067Hz to 100kHz		inoni 2229, ioni noigni ola	10ms to 3600s	
Me	easurement accuracy			±	0.008%±1diait			±0.1%±1diait	
	Filter	Switches among 100kHz, 30	0kHz, 10kHz, and 0.0	2kHz usin	g parameters. Note that you	can switch between only 10k	Hz and 0.02kHz in a mag	netic sensor, and its contact is only 0.02kHz.	
	Display cycle	0.2, 0.5, 1, 2, 5, 10, 15, 30, 60 s (can be changed in the parameter settings) Updates data using the above cycles for optional outputs excluding the analog and BCD outputs Updates data by 10ms or per display cycle for the analog output option					Dependent on the input signal		
	Pre-scale function	P The te	arameter set aching (comb	ting sy pinatio	ystem using the f on) of display valu	ront panel keys. les are also availa	ole.	-	
	Memory function	Stores the maxim	um/minimum	measu	irement values in r	nemory, and indicat	tes using green L	EDs in the sub display parts	
High	h and low set point values	Can	indicate the	upper	and lower limit v	alues using green	LEDs in the sub	o display parts	
-	Auto zero time		U.1 to 150 s	econo	ds		0.1 to 3600	seconds	
Pre	e-arithmetic function	L	pdates the d	usplay	ved value accordi	ng to the elapsed	time after the p	uise stops.	
_	Power supply		AC spec	cificat	ions: 85 to 264V	(50/60Hz), DC spe	ecifications: 9 to	) 35V	
	Input signal scope		Basic in	iput: C	Dpen collector, co Differential In	ontact, voltage pul put: Differential sig	se, magnetic se Inal	ensor	
Ir	nsulation resistance				10MΩ or mo	re (at DC500V Me	ga)		
	Voltage proof			~	AC1500	V or more 1min	45001		
	Noise resistance	0 11 111	0.0011	Su	pply terminal nor	mal/common mod	le ±1500V		
~ \	/ibration resistance	ance Complies with JIS C-0911, vibrational frequency: 10 to 55Hz, half amplitude: 0.5mm, 10 minutes for ea					nutes for each XYZ direction		
Oper	erating temperature/humidity 0 to 45°C (No condensation)/35 to 85%RH (No condensation)				n)				
Uperating atmosphere No corrosive gas									
	vternal dimensions	3 Front panel: IP66 (or equivalent), Rear terminal block: IP20							
	Weight				300kg (350g f	or models with out	thurt)		
Thor	a are the input specifications	in addition to the abov		(For de	taile contact us )		puty		
men	e are the input specifications		e specifications.	(i oi ue	ialis, contact us.)				
	Model				1	JI-5TVR			
П	Mode	Mode1	Mode2		Mode3	Mode4	Mode5	Mode6	
but	Input range	DC0 to ±10V	DC0 to ±	IV	DCI to 5V	DC4 to 20mA	DC0 to ±1001	ACU to TUUV	
0	Maximum antitice under a finale under the solution	1/5000							
isp	L Movimum cotting volue incertal recolution.					1/5000			
lay L	(when the input range is the maximum value)	0 to 5000(1 digit)	5002 to 100	00(2di	git) 10005 to 25	000(5digit) 25010	to 50000(10digi	it) 50020 to 99980(20digit)	
ay De	(when the input range is the maximum value) ecimal point position	0 to 5000(1 digit)	5002 to 100	00(2di	git) 10005 to 25	000(5digit) 25010 0 ¹ to 10 ⁴	to 50000(10digi	it) 50020 to 99980(20digit)	
De	(when the input range is the maximum value) ecimal point position Display parts	0 to 5000(1 digit) Main display parts: Red 7	5002 to 100	00(2di	git) 10005 to 25 1 nm, 5 digits, Sub display pa	000(5digit) 25010 0 ¹ to 10 ⁴ arts (2 sections): Green 7 seg	to 50000(10digi	it) 50020 to 99980(20digit) simm, 5 digits+5 digits, (-) display available	
De Me	when the input range is the maximum value) when the input range is the maximum value) accimal point position Display parts asurement accuracy Display coucle	0 to 5000(1 digit) Main display parts: Red 7	5002 to 100 segment LED, font h ±0.5	00(2di leight 15n % (full	git) 10005 to 25 1 nm, 5 digits, Sub display pa I-scale) (when the has changed in the par	000(5digit) 25010 0 ¹ to 10 ⁴ arts (2 sections): Green 7 seg a input range is the amater settions). Average	to 50000(10digi ment LED, font height 6.5 maximum valu	it) 50020 to 99980(20digit) imm, 5 digits+5 digits, (-) display available (e) lates and indicates the average value.	
De Me	when the input rays is the maximum value excimal point position Display parts asurement accuracy Display cycle Moving average	0 to 5000(1 digit) Main display parts: Red 7 Updates data every 0.2	5002 to 100 segment LED, font h ±0.5 ⁴ , 0.5, 1, 2, 5, and Averages	00(2di leight 15n % (full 10 s (cal data f	git) 10005 to 25 1 1 1 1 1 1 1 1 1 1 1 1 1	000(5digit) 25010 0 ¹ to 10 ⁴ arts (2 sections): Green 7 seg a input range is the ameter settings) Average v cycycles and indice	to 50000(10digi ment LED, font height 6.5 maximum valu s inputs between upd attes the average	it) 50020 to 99980(20digit) imm, 5 digits+5 digits, (-) display available ie) lates and indicates the average value e value	
De Me	Machina sang tale (spage recourd) (when the input range is the maximum value) Display parts asurement accuracy Display cycle Moving average Scaling	0 to 5000(1 digit) Main display parts: Red 7 Updates data every 0.2	5002 to 100 segment LED, font h ±0.5 , 0.5, 1, 2, 5, and Averages Se	00(2di leight 15n % (full 10 s (ca data f ts the	git) 10005 to 25 11, 5 digits, Sub display pr -scale) (when the n be changed in the par for 3 or 10 display voltage (current)	000(5digit) 25010 01 to 10 ⁴ arts (2 sections): Green 7 seg a input range is the ameter settings) Average y cycles and indic: of 2 points and th	to 50000(10digi ment LED, font height 6.5 maximum valu is inputs between upd attes the averagi ue display value	it) 50020 to 99980(20digit) mm, 5 digits+5 digits, (-) display available re) lates and indicates the average value e value	
By De Me	launa using take upga subury when the not range is been annum alaki crimal point position Display parts asurement accuracy Display cycle Moving average Scaling Teaching function	0 to 5000(1digit) Main display parts: Red 7 Updates data every 0.2 Per	5002 to 100 segment LED, font h $\pm 0.5^{\circ}$ , 0.5, 1, 2, 5, and Averages Se forms scaling	00(2di eight 15n % (full 10 s (ca data f ts the	git) 10005 to 25 1 nm,5 digits, Sub display pr -scale) (when the n be changed in the par for 3 or 10 displa' voltage (current) watically by setti	000(5digit) 25010 01 to 10 ⁴ of to 10 ⁴ of to 10 ⁴ of the transport of the transport of the transport of the transport of 2 points and the transport of 2 points and the transport of the display val	to 50000(10digi ment LED, font height 6.5 maximum values is inputs between upd attes the averag ue display value ue with a certai	it) 50020 to 99980(20digit) imm, 5 digits+5 digits, (-) display available ie) lates and indicates the average value e value n signal input	
Me	Industry and your section and the second with the hip ray as the maximum and being a point position Display parts asurement accuracy Display cycle Moving average Scaling Teaching function Memory function	0 to 5000(1 digit) Main display parts: Red 7 Updates data every 0.2 Per Stores the maxim	5002 to 100 segment LED, font h ±0.5' , 0.5, 1, 2, 5, and Averages Se forms scaling num/minimum	00(2di leight 15n % (full 10 s (ca data f ts the g auto measu	git) 10005 to 25 1 nm,5 digits, Sub display pr -scale) (when the n be changed in the par for 3 or 10 display voltage (current) matically by setti urement values in n	000(5digit) 25010 0 ¹ to 10 ⁴ ark (2 settions): Green 7 seg i input range is the ameter settings). Average y cycles and indic: of 2 points and th ing the display val memory, and indicat	to 50000(10digi ment LED, font height 6.5 a maximum value is inputs between upd ates the average ue display value ue with a certain es using green Li	it) 50020 to 99980(20digit) imm, 5 digits+5 digits, (-) display available ie) lates and indicates the average value e value n signal input EDs in the sub display parts	
Me Upp	Industry and experimental infer the program second bisplay parts asurement accuracy Display cycle Moving average Scaling Teaching function Memory function Memory function	0 to 5000(1 digit) Main display parts: Red 7 Updates data every 0.2 Per Stores the maxim Can	5002 to 100 segment LED, font h ±0.5 , 0.5, 1, 2, 5, and Averages Se forms scaling num/minimum indicate the u	00(2di eight 15n % (full 10 s (ca data f ts the g auto measu upper	git) 10005 to 25 1 m, 5 digits, Sub display par- -scale) (when the be changed in the par for 3 or 10 display voltage (current) matically by setti urement values in r and lower limit v	000(5digit) 25010 0 ¹ to 10 ⁴ the gestions): Green 7 segge a input range is that ameter settings) Average y cycles and indic: of 2 points and th ing the display val memory, and indications alues using green	to 50000(10digi ment LED, font height 6.5 a maximum value is inputs between upd attes the average te display value ue with a certai ies using green Li LEDs in the sub	it) 50020 to 99980(20digit) imm, 5 digits+5 digits, (-) display available ie) tates and indicates the average value e value n signal input EDs in the sub display parts.	
Me Upp	Automation of the dependence of the second o	0 to 5000(1digit) Main display parts: Red 7 Updates data every 0.2 Per Stores the maxim Can When the optiona bottom hold	5002 to 100 segment LED, font h ±0.5' ,0.5, 1, 2, 5, and Averages Se forms scaling num/minimum indicate the u I DOP-RMTR display is ava	00(2di eight 15n % (full 10 s (ca data f ts the g auto measu upper & for ex ailable	git) 10005 to 25 1 nm,5 digits, Sub display pa -scale) (when the n be changed in the par for 3 or 10 display voltage (current) imatically by setti urement values in r and lower limit v kternal signal inpu using external sig	175000 000(5digit) 25010 0 ¹ to 10 ⁴ input range is the ameter settings) Average y cycles and indic: of 2 points and th ing the display val memory, and indicat alues using green tts is installed, select:	to 50000(10dig ment LED, fort height 6.5 maximum value is inputs between upd ates the averagy ie display value ue with a certai es using green LI LEDs in the sub ction between a the peak or bo	it) 50020 to 99980(20digit) imm, 5 digits+5 digits, (-) display available ie) lates and indicates the average value e value n signal input EDs in the sub display parts o display parts. average display and peak or tiom using parameters	
Me Upp	Industry and experimental product (when the hiptrages the maximum allow command point position Display parts assurement accuracy Display cycle Moving average Scaling Teaching function Memory function per and lower limit values Peak display Auto zero	0 to 5000(1 digit) Main display parts: Red 7 Updates data every 0.2 Per Stores the maxim Can When the optiona bottom hold Turns	5002 to 100 segment LED, font h $\pm 0.5^{\circ}$ 1, 0.5, 1, 2, 5, and Averages Se forms scaling num/minimum indicate the u I DOP-RMTR I DOP-RMTR the display is ave the display 1	00(2di eight 15n % (full 10 s (ca data f ts the g auto measu upper & for ex ailable to zero	git) 10005 to 25 1 m, 5 digits, Sub display pa -scale) (when the n be changed in the par for 3 or 10 display voltage (current) matically by setti urement values in r and lower limit v xternal signal inpu using external signal inpu o fi the display variable	175000 000(5digit) 25010 0 ¹ to 10 ⁴ is (2 sections): Green 7 seg is input range is the ameter settings). Average y cycles and indicat of 2 points and th ing the display val memory, and indicat alues using green its is installed, sele gnal inputs. Select: lue becomes the p	to 50000(10dig ment LED, fort height 6.5 p maximum value s inputs between upd ates the average ue display value ue with a certaia ue with a certaia es using green LI LEDs in the sub ction between a s the peak or bo parameter settir	it) 50020 to 99980(20digit) im, 5 digits+5 digits, (-) display available ie) lates and indicates the average value e value n signal input EDs in the sub display parts o display parts. average display and peak or ttom using parameters ng value or less	
De Me	Autor and the constraint of th	0 to 5000(1 digit) Main display parts: Red 7 Updates data every 0.2 Per Stores the maxim Can When the optiona bottom hold Turns	5002 to 100 segment LED, font h ±0.5' , 0.5, 1, 2, 5, and Averages Se forms scaling num/minimum indicate the u I DOP-RMTR display is ava the display is ava the display of an expension Can se	00(2di eight 15n % (full 10 s (ca data f ts the g auto measu upper & for ex ailable to zero ncels in at enal	git) 10005 to 25 1 nm,5 digits, Sub display pa -scale) (when the n be changed in the par for 3 or 10 display voltage (current) matically by setti urement values in n and lower limit v veternal signal inpu- using external signal p if the display ve nput drifts. Resete log/disable on the	000(5digit) 25010 01 to 10 ⁴ 10 to 10 ⁴	to 50000(10digi ment LED, font height 6.5 e maximum value is inputs between upd ates the average te display value ue with a certail es using green LI LEDs in the sub ction between a s the peak or bo parameter settii ing the SET key t using tunction	it) 50020 to 99980(20digit) imm, 5 digits+5 digits, (-) display available ie) lates and indicates the average value e value e value En signal input EDs in the sub display parts to display parts. average display and peak or ttom using parameters ng value or less /, n 7)	
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#### **Dimensional drawing**



(mm)

5

# **Ratio Meters**



# Ratio Meters

Tachomet

(Basic input) (Basic input) DT-5TXR-RMTR (Basic input) (Differential input) DT-5TXR-DRTR (Differential input) (Basic input) DT-5TFR-RMTR (Differential input) (Differential input) DT-5TFR-DRTR

•Responds to various input signals.

- Easy to add and change various input and output functions.
- It can be achieved only by replacing the optional board. (Options are sold separately) *It can also support ratio meters in combination with the ratio input options (sold separately). (For details, contact us.)
- •Equipped with the dual sub indicators that display 2 types of revolution speed respectively.
- •Can be used in environments subject to a large amount of water, such as the food industry, with higher waterproof properties. (Equivalent to IP66)
- •Requires no complicated calculation, and implements the teaching function that enables optional changes of display values and error modifications.

•Can accept high-speed input at 100kHz

•Equipped with the memory function to store and display the maximum and minimum values

	Model		DT-5TXR-F	RMTR/DT-5TXR-D	RTR/DT-5TFR-RM	TR/DT-5TFR-DRT	R	
	Operation mode	Error ratio	Error ratio Absolute ratio Density ratio		Revolution speed difference	Transit speed	Time difference	
Dis	Display 1	-99999 to 99999 ±5 digits	0 to 5 c	99999 ligits	-99999 to 99999 ±5 digits	0 to 99999 5 digits	0:00:00 to 0:59:59 (hour, minute, second, base 60 display)	
play	Display 2							
				With zero s	uppression functio	n	1	
De	cimal point position		10 ⁻¹	to 10 ⁻⁴			-	
	Display parts	Main display parts: Red	7 segment LED, font he	ight 15mm, 5 digits, Sub	display parts (2 sections):	Green 7 segment LED, f	ont height 6.5mm, 5 digits+5 digits	
	Input range		0.0083Hz	to 100kHz		10m	sec to 3600s	
Me	asurement accuracy				±0.1%			
	Filter	Switches among 100kHz,	30kHz, 10kHz, and 20Hz us	sing parameters. Note that y	ou can switch between only 1	0kHz and 20Hz in a magnet	tic sensor, and its contact is only 20Hz.	
	Display cycle	le 0.2, 0.5, 1, 2, 5, 10, 15, 30, 60 sec (can be changed in the parameter settings) Updates data using the above cycles for transistor and BCD outputs. Updates data by 10ms for voltage c				ettings) 10ms for voltage output.		
	Pre-scale function	Parameter setting sys	tem using the front swi	itches. The teaching (co	mbination) of display valu	ues are also available.	-	
	Memory function	Can store the maximum/minimum measurement values in memory, and display.					d display.	
Upp	er and lower limit values	Can indicate the upper and lower limit values using green LEDs in the sub display parts.					display parts.	
	Auto zero time	0.1 to 150 seconds 0.1 to 3600 seconds					3600 seconds	
Pre	e-arithmetic function	Updates the displayed value according to the elapsed time after the pulse input.					lse input.	
	Power supply	AC85 to 264V (50/60Hz)						
1	nput signal scope	Basic input: Open collector, contact, voltage pulse, magnetic sensor Differential Input: Differential signal						
In	sulation resistance	10MΩ or more (at DC500V Mega)						
	Voltage proof	AC1500V or more 1min						
	Noise resistance	Supply terminal normal/common mode ±1500V						
V	ibration resistance	Complies with JIS	C-0911, vibration	al frequency: 10 to	55Hz, half amplitud	e: 0.5mm, 10 minu	tes for each XYZ direction	
Op	erating temperature			0 to 45°C	(No condensation)	)		
0	Operating humidity			35 to 85%R	H (No condensatio	on)		
Op	perating atmosphere	No corrosive gas						

Front panel: IP66 (or equivalent), Rear terminal block: IP20

W96×H48×D134min (DIN)

350g for models with output

#### **Dimensional drawing**

Protective functions

External dimensions

Weight

Specifications



# Speed ratio display for films, etc.





Traverser pitch display



# **Digital Counters**



Bidirectional counter with an arithmetic function

# (With 2-step preset output) DT-601CG



•Equipped with a drip-proof front panel (equivalent to IP66), this device can be used in food or medical products lines.

- •Free power supply of AC85 to 264V. Also supports DC12 to 24V. (available upon request at time of order)
- BCD output
- (The analog output and line receiver are optional)
- •Complies with the RoHS directive. Complies with the regulation that restricts the use of certain hazardous substances in electrical and electronic equipment.

Model	DT-601CG
Operation mode	Count-up, Count-down, Reversible
Display	LED 6-digit, font height: 14mm, red
Display range	-99999 to 999999
Counting range	Can select from among 3-round stop, endless, and over rotation display
Filter	Switches among 100kHz, 30kHz, 10kHz, and 20Hz using parameters. Note that you can switch between only 10kHz and 20Hz in a magnetic sensor, and its contact is only 20Hz.
Pre-scale	Optionally sets the scale factor per 1 signal from 1x10 ⁻⁹ to 9999
Decimal point position	Can optionally select from 1 digit to 3 digits after the decimal point
Power-off memory	100,000 times within 10 years
Input system	Individual, order, phase contrast (RE type)
Input signal	NPN open collector signal, voltage pulse signal (L: 2V or less, H: 3.8 to 30V)
Reset system	Manual reset, external reset
External reset signal	50ms or more, NPN open collector or contact signal
Counting inhibit signal response time	50ms or more, NPN open collector or contact signal
Sensor power output	DC12V±10%100mA MAX (DC24V 60mA is available optionally)
Applicable detector	Rotary encoder, proximity switch, gear sensor, contact
Operating temperature	0 to 45°C
Operating humidity	30 to 80%RH (No condensation)
Operating atmosphere	No corrosive gas
Consumption power	AC power: Approx. 20VA or less, DC power: Approx. 6VA or less
Power supply	AC specifications 85 to 264V(50/60Hz) DC specifications 12 to 24V(±)10%
Casing material	Housing: ABS resin with glass (black), Terminal block parts: P.B.T black
Protection grade	Equivalent to IP66 (front face part)
External dimensions	W96×H48×D130mm
Weight	Approx. 400g
Accessories	Terminal block cover 2 (acrylic transparent), rubber packing (NBR black), unit label

#### Dimensional drawing

Specifications



Terminal screw: M3.5 Terminal width: 7mm





Panel cut dimensions and installation intervals

(mm)



Rubber packing (accessory) Use the supplied rubber packing in conditions where waterproofing is necessary (equivalent to IP66).



# Hand Held Model Digital Tachometers



# DT-205Z



•A dual purpose tachometer for contact measurement using an adapter, and for noncontact measurement using reflection tape

•Can measure up to 1.2rpm using the frequency dividing function

Apply 2 to 5 pieces of reflection tape for measurement

#### For N=5



*Make sure to apply reflection tape at even intervals *The non-contact type only supports the RPM unit.



Apply reflection tape in 5 positions every 72° on a revolving object before use.

 Actualizes energy-saving by adopting LED to the light source

Enables continuous measurement for 35 hours (with two AA alkaline batteries)

 Lightweight and durable housing made of diecast aluminum

Specifications

Model		DT-205Z			
Measurement method		Non-contact type (Apply light on reflection tape and measure the cycle of reflection light)			
Display		5 digits display LCD Font height: 12mm			
Revolution anood	rpm	6 to 99999			
nevolution speed	(rev/s)	0.10 to 1666.7			
Measurement accuracy		6 to 8300rpm: ±1rpm 8301 to 25000rpm: ±2rpm 25001 to 99999rpm: ±0.006% of the displayed value and ±1 rpm			
Measurement t	time	Approx. 1 second (1 to 10sec for 60rpm or less)			
Measurement dis	stance	50 to 300mm			
Memory funct	ion	Stores the maximum, minimum, latest measurement values, and 30 measurement values for 5 minutes			
Stop watch fund	ction	Available measurement range: 0.1 to 999.9sec (0.06 to 600rpm)			
Low-speed revo measurement fur	lution nction	Minimum measurement speed: 1.2rpm (when 5 pieces of reflection tape are applied)			
Auto power o	off	5 minutes			
Power suppl	ly	AA alkaline battery x 2			
Battery life (during contin	uous use)	Approx. 35 hours			
Housing		Aluminum die-cast			
External dimens	sions	Length 170 x Width 63 x Thickness 46mm			
Weight (main u	unit)	Approx. 290g (including batteries)			
Operating tempe	rature	0°C to 40°C (No condensation)			
Accessories	6	Contact adapter, carrying case, AA alkali batteries x 2, reflection tape 1 sheet (35 pieces) Contact*1 (Conical x 2, Funnel x 1, Type-6 foil for speed measurement), Extension bar (Length: 75 mm) x 1			

*1 Measurement applications for each supplied contact are as follows: Conical: For revolution speed measurement (Used when a revolving object to be measured has a dent in the center)

Funnel: For revolution speed measurement (Used when a revolving object to be measured has a bump in the center) Type-6 foil for speed measurement: For speed/length measurement (Used when a revolving object to be measured has a belt-like shape)

#### •Measurement range when a contact adapter is used (when the speed measurement Type-6 foil is attached)

	5.	······································				
Measurement method		Contact type (Put the contact on a revolving object for measurement)				
Revolution	(rpm)	0.8 to 25000				
speed	(rev/s)	0.01 to 416.67				
	(cm/s)	0.2 to 6350.0				
Crossed	(m/s)	0.002 to 63.500				
Speed	(m/min)	0.11 to 3810.0				
	(km/h)	0.007 to 228.60				
Length	(m)	0.02 to 99999				
	(km)	0.0001 to 99999				
M		0.8 to 9999.9rpm: ±1rpm				
weasurement a	couracy	10000 to 25000rpm: ±0.006% of the displayed value and ±1 rpm				

#### **Dimensional drawing**







Contact type (LCDdisplay) DT-105N DT-105NS

Tachometer	Length
Tachometer	Length

- Enables measurement until the low speed 0.1 to 25,000rpm without switching the range
- •Stores the maximum, minimum, latest measurement values, and additional 10 measurement values
- •Can widely display the numeric values and units on the LCD
- •Energy efficient design that achieves continuous 60-hour measurement using two AA alkaline batteries.

Specificatio	ons					
Model		DT-105N	DT-105NS			
Measurement method		Put the contact on a revolving object for measurement				
		5 digits display				
Display		LCD LCD Font height: 12mm Font height: 12mm				
	(rpm)	0.10 to	25000			
Revolution speed	(rev/s)	0.002 to	9 416.67			
	(rev/h)	6 to 9	99999			
	(cm/s)	0.03 to 6350.0	0.05 to 12700			
	(m/s)	0.0003 to 63.500	0.005 to 127.00			
Speed	(m/min)	0.02 to 3810.0	0.03 to 7620.0			
	(m/h)	0.9 to 99999	1.8 to 99999			
	(km/h)	0.001 to 228.60	0.002 to 457.20			
	(cm)	0.5 to 99999				
Length	(m)	0.005 to 99999	0.010 to 99999			
	(km)	0.0001 to 99999	0.0002 to 99999			
Total number of rotations	(rev)	0.1 to 99999				
Measurement a	ccuracy	0.10 to 999.99rpm: ±0.06rpm 1000.0 to 9999.9rpm: ±0.6rpm 10000 to 25000rpm: ±0.006% of the displayed value and ±1 rpm				
Measuremen	t time	1 second				
Memory fund	ction	Stores the maximum, minimum, latest measurement values, and 10 measurement values				
Auto power	r off	5 minutes				
Power sup	ply	AA alkaline battery x 2				
Battery life (during continuous use)		Approx. 60 hours				
Housing	I	Aluminum die-cast				
External dime	nsions	Length 183 x Width 63 x Thickness 46mm				
Weight (main	unit)	Approx. 340g (ind	cluding batteries)			
		Carrying case, AA alkaline battery x 2, Contact ⁻¹ (Coni	cal x 2, Funnel x 1), Extension bar (Length: 75mm x 1)			
Accessori	es	Type-6 foil (Diameter: approx. 49 mm) for speed measurement ¹¹² Type-12 foil (Diameter: approx. 97 mm) for speed measurement ¹¹				

*1 Measurement applications for each supplied contact are as follows:

Conical: For revolution speed measurement (Used when a revolving object to be measured has a dent in the center)

Funnel: For revolution speed measurement (Used when a revolving object to be measured has a bump in the center)

Type-6 foil for speed measurement: For speed/length measurement (Used when a revolving object to be measured has a belt-like shape) *2 We provide models with type-12 foil for speed measurement (diameter: approx. 97mm). We recommend using those with type-12 foil when measuring the speed and length of high-speed objects to be measured.



# Hand Held Model Digital Tachometers



#### Tachometer Length

- •Enables measurement until the low speed 0.1 to 25,000rpm without switching the range
- •Stores the maximum, minimum, latest measurement values, and additional 10 measurement values
- •Can clearly confirm the display using LED (luminescent diode) even when it is dark
- •Energy efficient design that achieves continuous 30-hour measurement using two AA alkaline batteries.

Specifications				
Model		DT-107N	DT-107NS	
Measurement method		Put the contact on a revolving object for measurement		
		5 digitsDisplay		
Display		LED Font height: 10mm	LED Font height: 10mm	
	(rpm)	0.10 to 25000		
Revolution	(rev/s)	0.002 to 416.67		
	(rev/h)	6 to 99999		
	(cm/s)	0.03 to 6350.0	0.05 to 12700	
	(m/s)	0.0003 to 63.500	0.005 to 127.00	
Speed	(m/min)	0.02 to 3810.0	0.03 to 7620.0	
	(m/h)	0.9 to 99999	1.8 to 99999	
	(km/h)	0.001 to 228.60	0.002 to 457.20	
	(cm)	0.5 to 99999		
Length	(m)	0.005 to 99999	0.010 to 99999	
	(km)	0.0001 to 99999	0.0002 to 99999	
Total number of rotations (rev)		0.1 to 99999		
Measurement accuracy		0.10 to 999.99rpm: ±0.06rpm 1000.0 to 9999.9rpm: ±0.6rpm 10000 to 25000rpm: ±0.006% of the displayed value and ±1rpm		
Measuremer	nt time	1 second		
Memory fur	nction	Maximum, minimum, latest measurement values, and other 10 measurement values		
Auto powe	er off	5 minutes (LED is turned OFF in 10 seconds)		
Power sup	oply	AA alkaline battery x 2		
Battery life (during continuous use)		Approx. 30 hours		
Housin	g	Carrying case, AA alkaline battery x 2, Contact ⁻¹ (Conical x 2, Funnel x 1), Extension bar (Length: 75mm x 1)		
External dimensions		Length 183 x Width 63 x Thickness 46mm		
Weight (main unit)		Approx. 340g (including batteries)		
		Carrying case, AA alkaline battery x 2, Contact ⁻¹ (Conical x 2, Funnel x 1), Extension bar (Length: 75mm x 1)		
Accessories		Type-6 foil (diameter: approx. 49 mm) for speed measurement ¹¹²	Type-12 foil (diameter: approx. 97 mm) for speed measurement ⁻¹	

*1 Measurement applications for each supplied contact are as follows:

Conical: For revolution speed measurement (Used when a revolving object to be measured has a dent in the center) Funnel: For revolution speed measurement (Used when a revolving object to be measured has a bump in the center)

Type-6 foil for speed measurement: For speed/length measurement (Used when a revolving object to be measured has a belt-like shape) *2 We provide models with type-12 foil for speed measurement (diameter: approx. 97mm). We recommend using those with type-12 foil when measuring the speed and length of high-speed objects to be measured.



•Performs stable measurement with a palmsized compact design

•Offers two measurement types: the contact type to directly put the contact against the center of revolution axis of an object to be measured, and the non-contact type to enable measurement at a distance

Specifications				
Model		EE-1B (Contact type)	EE-2B (Non-contact type)	
Measurement method		Put the contact against the center of revolution axis	Emit visible light on reflection tape (1 piece) applied on a revolving object, and measure its reflection light	
Display		5 digits display LCD Font height: 12mm	5 digits display LCD Font height: 12mm	
	Develution encod	1.0 to 25,000rpm	C 0 to 00 000 rom	
	Revolution speed	0.02 to 416.67rev/sec		
		0.3 to 6350.0cm/sec		
Mea	Peripheral speed	0.001 to 63.500m/sec		
sure	(type-6 foil attached)	0.2 to 3810.0m/min		
men		0.003 to 228.60km/h		
it rar		1 to 99,999cm	-	
nge	Length (contact)	0.01 to 99,999m		
		0.0001 to 99,999km		
	Total number of rotations	0.1 to 99,999rev		
Measurement accuracy		1.0 to 599.9rpm: ±1rpm 600.0 to 25,000rpm: ±0.006% and ±0.5digit	6.0 to 8299.9rpm: ±1rpm 8300 to 24999rpm: ±2rpm 25000 to 99,999rpm: ±0.006% and ±0.5digit	
Measurement time		Less than 4rpm: max. 10 seconds 4rpm to 25,000rpm: Approx. 1 second	Less than 60rpm: max. 10 seconds 60rpm to 99,999rpm: Approx. 1 second	
Me	easurement distance	-	50 to 300mm	
	Memory	Maximum, minimum, latest measurement values, other 10 measurement values, and their average value		
	Power supply	AA dry cell battery (manganese or alkali) x 3		
Auto power off		5 minutes		
Accessories		Carrying case AA manganese dry cell battery x 3 Instruction manual Type-6 foil Funnel adapter Conical adapter	Carrying case AA manganese dry cell battery x 3 Instruction manual Reflection tape 1 sheet (35 pieces)	
E	xternal dimensions	Length 122.5 x Width 64 x Thickness 31.5mm	Length 115.5 x Width 64 x Thickness 31.5mm	
	Casing material	ABS resin		
	Weight (main unit)	Approx. 180g (including manganese dry cell batteries)	Approx. 150g (including manganese dry cell batteries)	
Operating temperature		0°C to 40°C (No condensation)		

The battery life is approximately 3 hours during continuous use for manganese dry cell batteries. When alkali dry cell batteries are used, the battery life is expected to be more than three times that of the manganese. Note that the supplied manganese dry cell batteries are samples. Their battery life may not be expected to be that of other batteries.

EE-18 *Measurement applications for each supplied contact, and speed measurement foil are as follows: Conical: For measurements of revolution speed and total number of revolutions (Used when a revolving object to be measured has a dent in the center)

Speed measurement foil: For speed/length measurement (Used when a revolving object to be measured has a belt-like shape) Funnel: For measurements of revolution speed and total number of revolutions (Used when a revolving object to be measured has a bump in the center)

EE-28 "Specified conditions with a measurement distance of 30cm Paint the edge face of a revolution disk in black. Apply 1 piece of the supplied reflection tape to the position of the radius 40mm from the center of revolution. (500rpm)



# **Digital Stroboscopes**



## LED Digital Stroboscope AC power input model

# DT-361 Built-in rechargeable battery model DT-365



#### Adopts LED as light source

Adoption of LED enables emission at high frequency (max.120,000fpm), and operation check of not only printing and weaving machines, but also electric tools that operate at high speeds.

Furthermore, this device produces higher luminance and achieves longer operating life.

- •Checks measurement of revolution speed and revolution axis vibration for motors, gears, and fans
- •Checks ultrahigh-speed revolution bodies, such as turbines
- •Checks printing misregistration level of rotary presses
- •Checks operation of warp and woof in weaving machines

Checks synchronization of motors

#### Specifications

Model		Model	DT-361	DT-365		
Application		plication	AC power input model Built-in rechargeable battery model			
Internal oscillation emission	E	mission count	60 to 120,000fpm			
	Se	tting accuracy	±0.02%			
	Measurement range setting		Can set to the range between 60 and 120,000fpm, or 60 and 12,000fpm			
	Setting disp (internal	Measurement range: 60 to 12,000fpm	60.0 to 3,00 3,000.2 to 6, 6,000.5 to 12,	10.0: 0.1fpm 100.0: 0.2fpm 000.0: 0.5fpm		
	lay resolution oscillation)	Measurement range: 60 to 120,000fpm	60 to 30,000: 0.1pm 30,00.2 to 60,000: 2fpm 60,00.5 to 100,000: 5fpm 100,010 to 120,000: 10fpm			
	Function to change the emission frequency setting		Can change the emission frequency to an optional value using the dial Can change the emission frequency to double or half of the current value using key operations (Each press of the key changes the value to double, quadruple, or half, one-quarter,)			
	Phase change function		Based on the current emission phase, For angle setting: by 1° within the range between 0° and 359° For time setting: by 1 ms within the range between 0 and 999 ms (max.)			
	Input interface		Voltage pulse input or open collector input of Hi: 2.5 to 12V and Lo: 0 to 0.5V			
Exterr	Pulse output interface		12V voltage pulse output Pulse width: Approx. 200µs			
ial syn	Synchronous edge switch		Can select either the rising edge or falling edge			
Ichrone	mea	Frequency surement range	40 to 35,000fpm			
ius em	A	vailable delay mission range	60 to 10,000fpm			
nission	A	vailable phase setting range	Delay angle: by 1° within the range between 0° and 359° Delay time: by 1ms within the range between 0 and 999 ms (max.)'1			
	S	ensor power	Dr power DC12V/max50mA			
Angle Can set by 0.1° within the range between 0.1° and 3.6° (/360°)			e between 0.1° and 3.6° (/360°)			
Time Max. 400µsec		00µsec				
Display		Display	6-digit red LED			
	Set	ting device	Multi-turn encoder, tact switch			
Emission source		sion source	Ultra luminosity white LED 18 lights			
	С	onnector	I/O signal connector	Power supply and I/O signal integrated connector		
	Mem	ory function	Saves the setting values when the power is OFF     Saves 5 setting values each on internal oscillation and external synchronous emission respectively			
A	Auto e	mission stop	Can set continuous emission, or set the time to stop emission by 1 minute within the range between 1 and 120 minute			
Power supply		ver supply	AC100 to 230V (50Hz/60Hz)	Built-in NiMH battery Continuous emission time Approx. 2 hours (when the emission duration is set to 3.6°) Approx. 5 hours (when the emission duration is set to 1.0°) Charging time: Approx. 2.5 hours Supplied AC adapter •Input: AC100 to 230V •Output: DC24V		
Operating temperature		ng temperature	0 to 35°C			
Operating humidity		ting humidity	35 to 85%RH			
Operating environment		ng environment	No dust and/or corrosive gases			
Compliance standard		ance standard	RoHS			
P	rotec	tion structure	Equivaler	nt to IP65		
		Weight	Approx. 1.8kg	Approx. 2.1kg		
	Accessories		External I/O connector (8 pin) x 1	Dedicated AC adapter x 1		

*1 A delay of approximately 30µs caused by the internal calculation process will be added.

#### Dimensional drawing





## Xenon Digital Stroboscopes AC power input model DT-311N

Built-in rechargeable battery model DT-315N



- •Enables stop motion analysis of operations of high-speed moving objects and revolving objects
- •A wide range of measurement from 40.0 to 35,000rpm
- •Can move an image under synchronized conditions
- •Equipped with connector for the external signal as standard

Specifications				
Model		DT-311N	DT-315N	
Emission count		40.0 to 35000rpm 0 to 35000rpm in the external cycle mode		
Internal oscillation mode	Display resolution	0.1: 40.0 to 5000rpm 0.2: to 8000rpm 0.5: to 10000rpm 1: to 35000rpm		
	Jump function	Equipped (each press of the specified switch changes the emission count to half or double)		
	Integer function	Equipped (can set to show or hide the decimal point)		
	Memory function	Equipped (stores the emission count when the power is turned OFF, and emits with that count when the power is turned ON again)		
	Input signal	H level :2.5 to 12V L level :0.8V MAX Pulse width: 50μsec or more Input impedance: Approx. 10kΩ or more		
External synchronous mode	Speed measurement function	40.0 to 35000rpm (Disab	led during delay emission)	
	Delay emission	0 to 359° in the range between 40.0 and 10,000rpm Can set the delay angle by 1°. Or 0 to 2000ms Can set the delay time by 1ms		
Dis	play	5-digit red LED 7 segments		
Synchronous output signal		12V voltage signal, pulse width: approx. 400µsec		
Setting	device	Multi-turn encoder, tact switch		
Flash source		Xenon lamp		
Lamp input		10W		
Power supply		AC100V to 120V	Continuous emission for approximately 1 hour using a dedicated rechargeable NiCd battery (quick recharge for 2 hours using the supplied AC adapter) Or continuous emission using the supplied AC adapter	
Emission timer		Continuously lights up, or stops emission, when the setting time of 1 to 120 minutes elapses		
Sensor power output		DC12V 40mA		
Power cable		2.4m	-	
Operating temperature		0 to 40°C		
Weight		Approx. 1.2kg	Approx. 2.1kg	
Accessories		Grip	Specified adapter	

(mm)

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#### Dimensional drawing



Operation analysis using stop motion



# **Digital Stroboscopes**



## Xenon Digital Stroboscopes AC power input model for printing machines DT-311P

Rechargeable model for printing machines **DT-315P** 



- •Enables stop motion analysis of operations of high-speed moving objects and revolving objects
- •A wide range of measurement from 40.0 to 35,000rpm
- •Can move an image under synchronized conditions
- •Equipped with connector for the external signal as standard

M	odel	DT-311P	DT-315P	
Emission	count (fpm)	60.0 to 3000fpm(60.0 to 3000rpm)		
	Setting accuracy	±0.1rpm : 60.0 to 200.0rpm	±0.2rpm : 200.1 to 3000.0rpm	
Internal oscillation mode	Jump function	Equipped (emission count changes to half or double only while the specified switch is being pressed)		
	Limit function	Equipped (can set in the range between 1000 and 3000fpm)		
	Integer function	Equipped (can set to show or hide the decimal point)		
	Memory function	Equipped (stores the emission count when the power is turned OFF, and emits with that count when the power is turned ON again)		
External synchronous	Input signal	H level: 2.5 to 12V L level: 0 to 0.4V Pulse width: 50µsec or more Trigger at the rising edge Input impedance: Approx. 10kΩ or more		
	Speed measurement function	60.0 to 3000fpm		
mode	Delay emission	200 to 3000fpm		
	Delay range	0 to 359° by 1° step		
Dis	play	5-digit red LED		
Synchronous	output signal	Voltage pulse output		
Setting	device	Jog shuttle switch, tact switch		
Flash	source	Xenon lamp		
Lamp	o input	MAX 10W		
Power supply		AC100V±10%	Continuous emission for approximately 1.5 hours using a dedicated rechargeable NiCd battery, or using the supplied AC adapter (quick recharge for 2 hours) External power supply: DC9 to 16V 2A	
Emission stop timer		Continuously for 1 to 99 minutes		
Sensor power output		DC12V 40mA		
Power cable		5m	-	
Operating temperature		0 to 40°C		
Environment		Drip-proof specification (equivalent to IP63)		
Weight		Approx. 1.4kg	Approx. 1.9kg	
Accessories		Metal connector for I/O signals	AC adapter and charger	

#### Dimensional drawing

Specifications







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