

GT3D Series — Digital Timers

Key features of the GT3D series include:

• Precise time setting using digital thumbwheel switches

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- Elapsed or time remaining LED display
- 6 time ranges, 16 timing functions
- Time delays up to 99.9 hours

UL Recognized File No.E55996 CSA Certified File No.LR58183 LR96764 LR83814



		GT3D-2	GT3D-3	GT3D-4	GT3D-8	
Operation Syst	em	S	Solid state CMOS	circuitry		
Operation		Multi-mode			Multi-mode. one-shot output	
Time Range			0.01s to 99.9 h	ours		
Rated Voltage		100 to 240V AC (50/60Hz), 24V AC (50/60Hz)/24V DC				
Contact Ratings		125V AC/250V AC, 3A; 30V DC/1A (resistive load)	125V AC/250V AC, 5A; 30V DC/5A (resistive load)			
Contact Form		Delayed SPDT + instantaneous SPDT	Delayed DPDT Delayed DPDT Delayed D			
Minimum Appli	icable Load	5	V, 10mA (referen	ce value)		
Voltage Tolerance		AF20 A A	(100–240V AC): 8 D24 (AC): 20.4 to D24 (DC): 21.6 to	5 to 264V AC 26.4V AC 26.4V DC		
Error		±0.3% ±50m	is (voltage, repea	t, and temperatur	re)	
Setting Error		±0.5% ±50ms				
Reset Time		60ms maximum				
Insulation Resi	stance	100MΩ minimum				
Dielectric Strength		Between power and output terminals: 2,000V AC, 1 minute Between contacts of different poles: 2,000V AC, 1 minute Between contacts of the same pole: 750V AC, 1 minute				
Power Consumption	AF20	11.8VA	11.6VA	3.7VA (100 11.6VA (20)V AC, 60Hz) 0V AC, 60Hz)	
(approximate)	AD24 AC/DC	1VA/0.8W	2.1VA/0.9W	2.1V/	\/0.9W	
Mechanical Lif	e	10,000,000 operations minimum	5,000,	000,000 operations minimum		
Electrical Life (at rated load)	50,000 operations mini- mum	100,0	000 operations mi	nimum	
Outputs	Relay	250V AC, 3A, 30V DC, 1A (resistive load)	2	240V AC/, 24V DC, (resistive load)	5A	
Vibration Resis	tance	100N (approximate 10G)				
Shock Resistar	ice	Operating extremes: 100N (approximate 10G) Damage limits: 500N (approximate 50G)				
Operating Tem	perature		-10 to +50°	О ^с		
Storage Tempe	rature		-30 to +80°	<u>о</u> С		
Operating Hum	idity		45 to 85% F	RH		
Weight (approx	imate)	70g	75g	7	76g	
Housing Color		Gray				

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Part Number List

Part Numbers: GT3D-1/GT3D-2/GT3D-3

Mode of Operation	Time Range	Output	Contact	Rated Voltage Code	Complete Part No.		
				nateu vonage ooue	8-Pin	11-Pin	
1-A: ON-delay 1 1-B: Interval 1 first 1-C: Cycle 1 (OFF first) 1-D: Cycle 3 (ON first)	0.01s to 99.9 hours 24 (r	250V AC, 3A, 30V DC, 1A (resistive load) Delayed S + instanta	Delayed SPDT	100 to 240V AC (50/60Hz)	GT3D-2AF20	GT3D-2EAF20	
			+ instantaneous SPDT	24V AC/DC	GT3D-2AD24		
		240V AC/, 24V DC, 5A (resistive load)	Delayed DPDT	100 to 240V AC (50/60Hz)	GT3D-3AF20	GT3D-3EAF20	
				24V AC/DC	GT3D-3AD24		

Part Numbers: GT3D-4

Mode of Operation	Time	Output	Contact	Contact Bated Voltage Code		e Part No.
mode of operation	Range	Output	oontaot	nateu voltage ooue	A (11-pin)	B (11-pin)
1-A: ON-delay 1 1-B: Interval 1 first 1-C: Cycle 1 (OFF first) 1-D: Cycle 3 (ON first) 2-A: ON-delay 2 2-B: Cycle 2 2-C: Signal ON/OFF-delay 1 2-D: Signal OFF-delay 1 2-E: Letropol 2	0.01s to 99.9	240V AC/24V DC, 5A	Delayed DPDT	100 to 240V AC (50/60Hz)	GT3D-4AF20	GT3D-4EAF20
2-F: One-shot cycle 3-A: Signal ON/OFF-delay 2 3-B: Signal OFF-delay 2 3-C: One-shot 1 3-D: One-shot 0N-delay 3-E: One-shot 2 3-F: Signal ON/OFF-delay 3	hours	(resistive load)		24V AC/DC	GT3D-4AD24	_

Part Numbers: GT3D-8

Mode of Operation	Time Range	Output	Contact	Rated Voltage Code	Complete Part No. (11-pin)
1: ON-delay one-shot 1 2: Cycle one-shot	0.01s to	240V AC/24V DC,		100 to 240V AC (50/60Hz)	GT3D-8AF20
3: ON-delay one-shot 2	hot 99.9 5A ie-shot 2 hours (resistive load)	Delayed DI DI	24V AC/DC	GT3D-8AD24	



- 1. For wiring schematics and timing diagrams GT3D, see pages G-25 to G-32.
- 2. For more details about time ranges, see instructions on page G-33.
- 3. A (11-pin) and B (11-pin) differ in the way inputs are wired.
- 4. For socket and accessory part numbers, see page G-48.
- 5. For timing diagrams overview, see page G-4.

		GT3D-2 Timing Diagrams
Contact	Delaved SPDT + In	Istantaneous SPDT
Contact	8-Pin	11-Pin (6) (9)
	3 6	
	POWER	
	Item Terminal No.	Operation Sat Time
	Power (Power) 2-7 (8p) 2-10 (11p)	
ON-Delay 1 Time Remaining	Delayed (NC) 1-4, 5-8 (8p) 1-4, 8-11 (11p) Contact (NO) 1-3, 6-8 (8p) 1-3, 9-11 (11p)	
1 — A Time Elapsed	Instan- (NC) 1-4 taneous Contact (NO) 1-3	
1 - A	Indicator OUT	
	Digital DOWN Time Display UP	
	Item Terminal No.	Operation Sof Time
	Power (Power) 2-7 (8p) 2-10 (11p)	
Interval 1 Time Remaining	Delayed (NC) 1-4, 5-8 (8p) 1-4, 8-11 (11p) Contact (NO) 1-3, 6-8 (8p) 1-3, 9-11 (11p)	
1 — B Time Elapsed	Instan- (NC) 1-4 taneous Contact (NO) 1-3	
<u>1</u> — B	Indicator OUT	
	Digital DOWN Time Display UP	
	Item Terminal No.	Operation
	Power (Power) 2-7 (8p) 1-4 5-8 (8p)	Set Time
Cycle 1 (OFF first) Time Remaining	Delayed ^(NC) 1-4, 8-11 (11p) Contact (NO) 1-3, 6-8 (8p) 1-3, 9-11 (11p)	
1 — C Time Elapsed	Instan- (NC) 1-4 taneous Contact (NO) 1-3	
1 - C	Indicator OUT	
	Digital DOWN Time Display UP	
	Item Terminal No.	Operation
	Power (Power) 2-7 (8p) 2-10 (11p)	
Cycle 3 (ON first) Time Remaining	Delayed (NC) 1-4, 5-8 (8p) 1-4, 8-11 (11p) Contact (NO) 1-3, 6-8 (8p) 1-3, 9-11 (11p)	
1 — D Time Elapsed	Instan- (NC) 1-4 taneous Contact (NO) 1-3	
1 – D	Indicator OUT	
	Digital DOWN Time Display UP	

		GT3D-3 Timing Diagram
	Contact	Delayed DPDT
		8-Pin 4 5 11-Pin 5 6 7 3 6 4 8
	Operation Mode Selection	(-) 2 0 0 0 (+) (-) 2 0 0 0 (+) (-) 2 0 0 (+) (-) 2 0
		Item Terminal No. Operation
	ON-Delay 1	Power (Power) 2-7 (8p) Set Time
	Time Remaining 1 — A	Delayed (NC) 1-4, 5-8 (8p) Contact (NO) 1-3, 6-8 (8p) (NO) 1-3, 9-11 (11p)
	Time Elapsed	Indicator OUT
	1 - A	Digital DOWN Time Display UP
G		Item Terminal No. Operation
Ş	Interval 1	Power (Power) 2-7 (8p)
ner	Time Remaining	(NC) 1-4, 8-11 (11p) Delayed (NO) 1-3, 6-8 (8p)
Ē	Time Elapsed	Indicator OUT
	<u>1</u> – B	Digital DOWN
		Display UP
		Item Terminal No. Operation
	Cycle 1 (OFF first)	Power (Power) 2-10 (11p)
	Time Remaining	Delayed (NC) 1-4, 8-11 (11p) Contact (NO) 1-3, 6-8 (8p)
	Time Elapsed	Indicator OUT
		Digital DOWN Time Display UP
		Item Terminal No. Operation
	Cycle 3 (ON first)	Power (Power) 2-10 (11p)
		Uelayed (NO) 1-4, 8-11 (11p) Contact (NO) 1-3, 6-8 (8p) 1-3, 9-11 (11p)
	Time Elapsed	Indicator OUT
		Digital DUWN Time Display UP
		<u></u>

GT3D-4 Timing Diagrams

These timers require a start input. A gate and reset input are optional. Inputs are controlled by external pushbuttons. Reset occurs when the power is removed or when the reset input is supplied. The gate signal can be used to interrupt (freeze) timer functions. Timer functions resume when the gate input is removed. B style timers are not equipped for gate input. GT3D-4

Delayed DPDT (A Type) (Contact Input) (Transistor Input) (6) (6) (5) (5) 8) Reset Start Gate ResetStartGate (4 (4 9 (3 (-) (-) (+) (1 POWER POWER (B Type) (Contact Input) (Transistor Input) Start Reset StareReset -(6 (5) (4 (3 POWER POWER



GT3D Series

GT3D-4 Timing Diagrams, continued

Timers

IDEC



GT3D-4 Timing Diagrams, continued



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GT3D Series

Timers **IDEC**

GT3D-4 Timing Diagrams, continued



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GT3D-4 Timing Diagrams, continued



Timers **IDEC**

GT3D-8 Timing Diagrams



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Instructions: Setting GT3D-2, GT3D-3 Timers



② Operation Mode Selector A, B, C, D

Step 1		Desired	Mode/Selection		Remarks
	Time Display Mode	① Indicator Mode Selector	Operation Mode	⁽²⁾ Operation Mode Selector	
	Time elapsed	1	ON-delay 1	A	1. Use the flat screwdriver to set the selectors. Since selectors do not turn all the way around,
Select the desired	Time remaining	1		А	both clockwise and counterclockwise rotation may be necessary.
	Time elapsed	1	Interval	В	2. The ① Indicator Mode Selector determines whether the Digital Time Display shows the time classed or time romaining. The ② Opera
time display and operation modes.	Time remaining	1	interval	В	tion Mode Selector determines the desired operation mode. Decide which display and
	Time elapsed		Cvcle 1	С	tors \mathbb{T}^2 to set the operation mode.
	Time remaining	1	0,000	С	3. The ⁽²⁾ Operation Mode Selector has two blank modes which are not intended for use. Always have this selector set to A B C, or D
	Time elapsed	1	Cycle 3	D	······,-······························
	Time remaining	1		D	
Step 2	Desi	red Operation	Sele	ection	Remarks
	Base Time Ranges		③ Time Range Selector		1. The ③ Time Range Selector controls both the decimal point indicator (9.99, 99.9, 999) an
			Decimal Point Indicator	Time Increment Indicator	the time increment indicators S (seconds), M (minutes), and H (hours).
Onland a Construction during	0.01 secon	ds to 9.99 seconds	9.99		2. Chose which base time range contains the
Select a time range that contains the desired	0.1 second	s to 99.9 seconds	99.9 S 999		Range Selector to set the decimal point indica-
period of time.	1 second to	o 999 seconds			tor and time increment indicator to its corre-
•	0.1 minutes	s to 99.9 minutes	99.9	D.C.	sponding pair of settings.
	1 minute to	999 minutes	999		3. Since these configurations offer a complete range of settings from 0.01 seconds to 99.9
	0.1 hours to	o 99.9 hours	99.9	Н	9.99 and 999 setting of 9.99 for minutes and the 9.99 and 999 settings for hours are not listed and should not be used.
Step 3	Desi	red Operation	Sele	ection	Remarks
Set the precise period of ti	me desired	by using the ④ Tim	e Setting Digital Sv	witch.	Use the ④ Time Setting Digital Switch to set the desired period of time. It is important to remember that the setting of the ③ Time

Range Selector determines the units of time measurement as well as the implied decimal point location.

It is important to remember that the ③ Time Range Selector not only selects the time range but also influences the interpretation of the Digital Time Display. Changing the ③ Time Range Selector setting changes the units of time measurement (seconds, minutes, hours) as well as the decimal point location.

Instructions: Setting GT3D-4 Timers

Digital Time Display (LCD backlit with Red LED)

Timed OUT Indicator

① Operation Mode Selector/Indication Mode Selector -



④ Time Setting Digital Switch

③ Time Range Selector <u>9.99S</u> – 99.9H

② Operation Mode Selector A, B, C, D, E, F

Step 1		D	esired Mode/Selection		Remarks	
	Time Display Mode	 Indicator Mode Selector 	Operation Mode	⁽²⁾ Operation Mode Selector	1. Use a flat screwdriver to set the selec- tors. Since selectors do not turn all the way around, both clockwise and counter-	
	Time elapsed	<u>\</u> 1	ON-delay 1 Interval 1	A B C D	 clockwise rotation is necessary. 2. The ① Indicator Mode Selector determines whether the Digital Time Display shows the time elapsed or time remaining. The ② Operation Mode Selector determines 	
	Time remaining	1	Cycle 1 D: Cycle 3			
time display and operation modes.	Time elapsed	2	ON-delay 2 Cycle 2 Signal ON/OFF-delay 2	A B C	mines the desired operation mode. Decide which display and mode is desired; then use these two selectors $\mathbb{C}^{(2)}$ to set the	
	Time remaining	2	Signal OFF-delay 1 Interval 2 One-shot cycle	D E F	operation mode.	
	Time elapsed	3	Signal ON/OFF-delay 2 Signal OFF-delay 2 One-shot 1	A B C	"1," the ② Operation Mode Selector has two blank modes which are not intended	
	Time remaining	3	One-shot ON-delay One-shot 2 Signal ON/OFF-delay 3	D E F	always have the operation mode selector set to A, B, C, or D.	
Step 2	Desire	d Operation	Sele	ction	Remarks	
	Base Time Ranges		③ Time Range Selector		1. The ③ Time Range Selector controls both the decimal point indicator (9.99, 99.9,	
			Decimal Point Indicator	Time Increment Indicator	999) and the time increment indicator: S (seconds), M (minutes), and H (hours).	
Soloot a time range that	0.01 seconds to 9.99 seconds		9.99		2. Choose the base time range which con- tains the targeted timer setting. Then use the ③ Time Range Selector to set the deci-	
contains the desired	0.1 seconds to 99.9 seconds		99.9	S		
period of time.	1 seconds to 999 seconds		999		mal point indicator and time increment indi- cator to its corresponding pair of settings.	
	0.1 minutes to 99.9 minutes		99.9	М	2 Since these configurations offer a com	
	1 minute to	999 minutes	999		plete range of settings from 0.01 seconds to	
	0.1 hours to 99.9 hours		99.9 H		99.9 hours, the setting of 9.99 for minutes and the 9.99 and 999 settings for hours are not listed and should not be used.	
Step 3	Desire	d Operation	Sele	ction	Remarks	
Select the desired period	of time by u	sing the @Time	Setting Digital Switch.		Use the ④ Time Setting Digital Switch to set the desired period of time. It is impor- tant to remember that the setting of the ③ Time Range Selector determines the units of time measurement as well as the implied decimal point location.	

It is important to remember that the ③ Time Range Selector not only selects the time range, but also influences the interpretation of the Digital Time Display. Changing the ③ Time Range Selector setting changes the units of time measurement (seconds, minutes, hours) as well as the implied decimal point location.

Instructions: Setting GT3D-8 Timers

	Timed OU Digital Tim (LCD back with Red I ① Indica Selector 1	T Indicat <u>or</u> T Indicat <u>or</u> T Indicator T	99 99 99 99 99 99 99 99 99 99	(4) Time Setting Digital Switch (3) Time Range St 9.995 – 99.9H Shot Output Time Selector 5, F	elector	
Step 1	Desired Mode	e of Operation	Se Se	election	Remarks	
	Operation Mode	Time Display Mode	① Indicato	r Mode Selector		
Select the	ON-Delay One-Shot	Time elapsed Time remaining	1		1. Use a flat screwdriver to set the selectors. Since selectors do not turn all the way around, both clockwise and counterclockwise rotation is necessary.	
time display and operation modes.	Cycle one-shot Time elapsed Time remaining		2		 The GT3D-8 ① Indicator Mode Selector selects both whether the Digital Time Display displays the time elapsed or time remaining and also the mode of apartition. Decide which 	G
	ON-delay one-shot 2	ot 2 Time elapsed 3 Time remaining 3			display and mode is desired. Then use this selector to set the operation mode.	
Stop 2	Desired Med	a of Anoration	Selection		Pomorke	er
Step 2	Desired Single-Shot		© Single-Shot	Autnut Time Selector	nemarks	S
	0.1 seconds		A			
	0.1 30001103		В		On the GT3D-8 timers, the desired single-shot	
Select the	0.5 seconds		D		output time can be selected from the A, B, C, D,	
Select the single shot	0.5 seconds 1 second		С		output time can be selected from the A, B, C, D, F, and F modes using the ② One-Shot Output	
Select the single shot output time.	0.5 seconds 1 second 5 seconds		C D		output time can be selected from the A, B, C, D, E, and F modes using the ② One-Shot Output Time Selector.	
Select the single shot output time.	0.5 seconds 1 second 5 seconds 10 seconds		C D E		output time can be selected from the A, B, C, D, E, and F modes using the ② One-Shot Output Time Selector.	
Select the single shot output time.	0.5 seconds 1 second 5 seconds 10 seconds 50 seconds		C D E F		output time can be selected from the A, B, C, D, E, and F modes using the ② One-Shot Output Time Selector.	
Select the single shot output time. Step 3	0.5 seconds 1 second 5 seconds 10 seconds 50 seconds Desired Mode	e of Operation	C D E F	election	output time can be selected from the A, B, C, D, E, and F modes using the ⁽²⁾ One-Shot Output Time Selector. Remarks	
Select the single shot output time. Step 3	0.5 seconds 1 second 5 seconds 10 seconds 50 seconds Desired Mode Base Tim	e of Operation ne Ranges	C D E F 3 Time F Decimal Point Indicator	election Range Selector Time Increment Indicator	output time can be selected from the A, B, C, D, E, and F modes using the ⁽²⁾ One-Shot Output Time Selector. Remarks 1. The ⁽³⁾ Time Range Selector controls both the decimal point indicator (9.99, 99.9, 999) and the time increment indicator: S (seconds), M	
Select the single shot output time. Step 3	0.1 seconds 0.5 seconds 1 seconds 10 seconds 50 seconds Desired Mode Base Tim 0.01 seconds to 9.99 se	e of Operation te Ranges	C D E F Se 3 Time F Decimal Point Indicator 9 99	election Range Selector Time Increment Indicator	output time can be selected from the A, B, C, D, E, and F modes using the ⁽²⁾ One-Shot Output Time Selector. Remarks 1. The ⁽³⁾ Time Range Selector controls both the decimal point indicator (9.99, 99.9, 999) and the time increment indicator: S (seconds), M (minutes), and H (hours).	
Select the single shot output time. Step 3	0.1 seconds 0.5 seconds 1 seconds 10 seconds 50 seconds Desired Mode Base Tim 0.01 seconds to 9.99 sec 0.1 seconds to 99.9 sec	e of Operation ne Ranges conds onds	C D E F Se 3 Time F Decimal Point Indicator 9.99 99.9	election Range Selector Time Increment Indicator	output time can be selected from the A, B, C, D, E, and F modes using the ② One-Shot Output Time Selector. Remarks 1. The ③ Time Range Selector controls both the decimal point indicator (9.99, 99.9, 999) and the time increment indicator: S (seconds), M (minutes), and H (hours). 2. Chose which base time range contains the targeted time resting. Then use the ③ Time	
Select the single shot output time. Step 3 Select the time range that contains the	0.1 seconds 0.5 seconds 1 second 5 seconds 10 seconds Desired Mode Base Tim 0.01 seconds to 9.99 seconds 1 seconds to 999 second	e of Operation te Ranges conds onds ds	B C D E F Occimal Point Indicator 9.99 999	election Range Selector Time Increment Indicator	output time can be selected from the A, B, C, D, E, and F modes using the ⁽²⁾ One-Shot Output Time Selector. Remarks 1. The ⁽³⁾ Time Range Selector controls both the decimal point indicator (9.99, 99.9, 999) and the time increment indicator: S (seconds), M (minutes), and H (hours). 2. Chose which base time range contains the targeted timer setting. Then use the ⁽³⁾ Time Range Selector to set the decimal point indica-	
Select the single shot output time. Step 3 Select the time range that contains the desired period	0.1 seconds 1 seconds 1 seconds 10 seconds 50 seconds Desired Mode Base Tim 0.01 seconds to 9.99 second 0.1 seconds to 99.9 second 0.1 minutes to 99.9 minutes to 99.	e of Operation te Ranges conds onds ds utes	B C D E F Occimal Point Indicator 9.99 99.9 99.9	election Range Selector Time Increment Indicator	output time can be selected from the A, B, C, D, E, and F modes using the ⁽²⁾ One-Shot Output Time Selector. Remarks 1. The ⁽³⁾ Time Range Selector controls both the decimal point indicator (9.99, 99.9, 999) and the time increment indicator: S (seconds), M (minutes), and H (hours). 2. Chose which base time range contains the targeted timer setting. Then use the ⁽³⁾ Time Range Selector to set the decimal point indica- tor and time increment indicator to its corre- sponding pair of settings.	
Select the single shot output time. Step 3 Select the time range that contains the desired period of time.	0.1 seconds 0.5 seconds 1 seconds 1 seconds 5 seconds 10 seconds 50 seconds Desired Mode Base Tim 0.01 seconds to 9.99 second 1 second to 999 second 0.1 minutes to 99.9 minutes 1 minute to 999 minutes	e of Operation ne Ranges conds onds is utes s	B C D E F Ocimal Point Indicator 9.99 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9	election Range Selector Time Increment Indicator S	output time can be selected from the A, B, C, D, E, and F modes using the ② One-Shot Output Time Selector.	
Select the single shot output time. Step 3 Select the time range that contains the desired period of time.	0.1 seconds 1 seconds 1 seconds 10 seconds 50 seconds Desired Mode Base Tim 0.01 seconds to 9.99 second 0.1 seconds to 99.9 second 0.1 minutes to 99.9 minutes 0.1 hours to 99.9 hours	e of Operation ne Ranges conds onds is utes s	B C D E F Ocimal Point Indicator 9.99 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9	election Range Selector Time Increment Indicator S M H	 output time can be selected from the A, B, C, D, E, and F modes using the ⁽²⁾ One-Shot Output Time Selector. Remarks The ⁽³⁾ Time Range Selector controls both the decimal point indicator (9.99, 99.9, 999) and the time increment indicator: S (seconds), M (minutes), and H (hours). Chose which base time range contains the targeted time setting. Then use the ⁽³⁾ Time Range Selector to set the decimal point indicator and time increment indicator to its corresponding pair of settings. Since these configurations offer a complete range of settings from 0.01s to 99.9 hours, the setting of 9.99 for minutes and the 9.99 and 999 settings for hours are not listed and should not be used. 	
Select the single shot output time. Step 3 Select the time range that contains the desired period of time. Step 4	0.1 seconds 0.5 seconds 1 second 5 seconds 10 seconds 50 seconds Desired Mode 0.01 seconds to 9.99 second 0.1 seconds to 99.9 second 0.1 seconds to 99.9 second 0.1 minutes to 99.9 minutes 0.1 hours to 99.9 hours Desired Mode	e of Operation ne Ranges conds onds is utes s e of Operation	B C D E F Ocimal Point Indicator 9.99 99.9 99.9 99.9 <	election Range Selector Time Increment Indicator S M H H	output time can be selected from the A, B, C, D, E, and F modes using the ② One-Shot Output Time Selector.	

It is important to remember that the ③ Time Range Selector not only selects the time range, but also influences the interpretation of the Digital Time Display. Changing the ③ Time Range Selector setting changes the units of time measurement (seconds, minutes, hours) as well as the decimal point location.

point location.