

5 Setting Item List

TC80-D3V

Mode0

Setting code	Function	Initial value	Setting range	LOCK1	LOCK2
1	HI limit (torque)	999.99	-99999 to 99999	⊙	
2	LO limit (torque)	-999.99	-99999 to 99999	⊙	
3	Alarm HI limit(torque)	999.99	-99999 to 99999	⊙	
4	Alarm LO limit(torque)	-999.99	-99999 to 99999	⊙	
5	Sign/Unit	20			⊙
	Sign(torque)	└─┐	0 : NORMAL 1 : REVERSE 2 : ABSOLUTE		
	Unit(torque)	└─┐	0 : mNm 1 : Ncm 2 : Nm 3 : kNm 4 : kgm (kgfm) 5 : kgcm (kgfcm) 6 : gcm (gfcmm)		
6	Min scale deviation(torque)	0	0 : 1, 1 : 2, 2 : 5, 3 : 10, 4 : 20, 5 : 50, 6 : 100		⊙
7	Decimal place (torque)	2	0 : None, 1 : 0.0, 2 : 0.00, 3 : 0.000		⊙
8	Near zero	0	00000 to 99999	⊙	
9	Hysteresis(torque)	0	0000 to 9999	⊙	

Mode1

Setting code	Function	Initial value	Setting range	LOCK1	LOCK2
1	HI limit (rotation speed)	99999	0 to 99999	⊙	
2	LO limit (rotation speed)	0	0 to 99999	⊙	
3	Alarm HI limit (rotation speed)	99999	0 to 99999	⊙	
4	Alarm LO limit (rotation speed)	0	0 to 99999	⊙	
5	Torque meter type	2	0 : UTM, 1 : UTMⅡ, 2 : UTMⅢ(4Pulses), 3 : UTMⅢ(60Pulses), 4 : Undefined 5 : UTMⅢ(60Pulses·high speed)		⊙
6	Min. scale division (rotation speed)	0	0 : 1, 1 : 2, 2 : 5, 3 : 10, 4 : 20, 5 : 50, 6 : 100		⊙
7	Quick stop mode	1	0 : OFF, 1 : 2times, 2 : 4times, 3 : 8times	⊙	
8	Hysteresis(rotation speed)	0	0000 to 9999	⊙	
9	Minimum input rotation speed	0	0 : 15, 1 : 10, 2 : 5, 3 : 3, 4 : 2	⊙	

Mode2

Setting code	Function	Initial value	Setting range	LOCK1	LOCK2
1	Power/Angle selection	0	0 : Power, 1:Angle		⊙
2	Encoder pulse	3600	1 to 9999		⊙
3	Unit (angle)	0	0 : deg, 1 : rad		⊙
4	Direction	0	0 : NORMAL 1 : REVERSE		⊙
5	Min. scale division (angle)	3	0 : 0.1, 1 : 0.2, 2 : 0.5, 3 : 1, 4 : 2, 5 : 5, 6 : 10, 7 : 20, 8 : 50, 9 : 100		⊙
6	Zero clear	550	1 to 550 (1 to 55)		⊙
7	Undefined	0			
8	Low speed rotation mode	0	0 : OFF, 1 : ON		⊙
9	Power setting	100			⊙
	Min. scale division (power)	└─┐	0 : 1 1 : 2 2 : 5 3 : 10		
	Decimal place (power)	└─┐	0 : None 1 : 0.0 2 : 0.00 3 : 0.000		
	Unit(power)	└─┐	0 : mW 1 : W 2 : kW 3 : PS 4 : HP		

Mode3

Setting code	Function	Initial value	Setting range	LOCK1	LOCK2
1	Hold mode	0	0 : OFF, 1 : SAMPLE, 2 : PEAK, 3 : BOTTOM 4 : P-P, 5 : AVERAGE, 6 : PEAK ANG1 7 : PEAK ANG2	⊙	
2	Hold fix section	0	0 : All section, 1 : With section, 2 : LEVEL	⊙	
3	Undefined	0			
4	Start level	10	-99999 to 99999	⊙	
5	Stop level	0	-99999 to 99999	⊙	
6	HI/LO limit comparison mode	0000		⊙	
	Undefined	└─┐	0		
	Comparison timing (rotation speed)	└─┐	0 : ALL 1 : Interlocking with torque		
	Undefined	└─┐	0		
	Comparison timing (torque)	└─┐	0 : ALL 1 : MD 2 : NZ OFF 3 : MD+NZ OFF 4 : Hold		
7	Motion detection(period-range)	1.5-05	0.0 - 00 to 9.9 - 99	⊙	
8	Digital high-pass filter (torque)	0	0 : PASS, 1 to 1000Hz	⊙	

Mode4

Setting code	Function	Initial value	Setting range	LOCK1	LOCK2
1	Setting value LOCK	0	0 : OFF, 1 : ON		
2	Calibration value LOCK	0	0 : OFF, 1 : ON		
3	Key invalid	111			
	Display switching key	└─┐	0 : Invalid 1 : Valid		
	ZERO key	└─┐	0 : Invalid 1 : Valid		
	HOLD key	└─┐	0 : Invalid 1 : Valid		
4	Display update rate	4	0 : Once/sec, 1 : 3times/sec, 2 : 6times/sec 3 : 13times/sec, 4 : 25times/sec	⊙	
5	Visibility	1	0 : OFF, 1 : 0.5s, 2 : 1.0s, 3 : 2.0s	⊙	
6	Digital low-pass filter (torque)	100	0 : PASS, 1 to 1000Hz	⊙	
7	Moving average filter (torque)	0	0 : OFF, 2 to 999	⊙	
8	Moving average filter (rotation speed)	0	0 : OFF, 2 to 999	⊙	
9	Moving average filter (angle)	0	0 : OFF, 2 to 999	⊙	

Mode5

Setting code	Function	Initial value	Setting range	LOCK1	LOCK2
1	Input selection	0	0 : Digital zero(torque), 1 : HOLD, 2 : HOLD Reset, 3 : Digital zero(angle) 4 : Digital zero(torque·angle)	⊙	
2	Output selection1	00	00 : HI(torque) 01 : OK(torque) 02 : LO(torque) 03 : ALM HI(torque) 04 : ALM LO(torque) 05 : NZ(torque) 06 : HI(rotation speed) 07 : OK(rotation speed) 08 : LO(rotation speed) 09 : ALM HI(rotation speed) 10 : ALM LO(rotation speed) 11 : HOLD 12 : DZ_OK(response) 13 : RUN	⊙	
3	Output selection2	02	00 : HI(torque) 01 : OK(torque) 02 : LO(torque) 03 : ALM HI(torque) 04 : ALM LO(torque) 05 : NZ(torque) 06 : HI(rotation speed) 07 : OK(rotation speed) 08 : LO(rotation speed) 09 : ALM HI(rotation speed) 10 : ALM LO(rotation speed) 11 : HOLD 12 : DZ_OK(response) 13 : RUN	⊙	
4	Input OFF detection wait time	0.01	0.00 to 9.99	⊙	
5	Transmission delay time	00	00 to 99		

Mode6

Setting code	Function	Initial value	Setting range	LOCK1	LOCK2
1	RS-485 communication mode	100			⊙
	Transmission data selection	└─┐	0 : Format1 1 : Format2 2 : Format3 3 : Format4 4 : Format5 5 : Format6		
	Communication mode selection	└─┐	0 : Command(UTM) 1 : RS-485 display mode 2 : Command(UNI-Format) 3 : Auto 4 : Continuous 5 : Modbus-RTU		
	RS-485 termination resistor	└─┐	0 : OFF, 1 : ON		
2	RS-485 I/F setting	51000			⊙
	Delimiter (For UNI-Format)	└─┐	0 : CR 1 : CR+LF		
	Stop bit	└─┐	0 : 1bit 1 : 2bit		
	Parity bit	└─┐	0 : None 1 : Odd 2 : Even		
	Character length	└─┐	0 : 7bit 1 : 8bit		
	Baud rate	└─┐	0 : 9600bps 1 : 19200bps 2 : 38400bps 3 : 57600bps 4 : 115.2Kbps 5 : 230.4Kbps		
3	RS-485 ID	01	00 to 31	⊙	
4	RS-485 dedicated rated capacity	100.00	00000 to 99999	⊙	
5	Read setting value	0	0 : Cancel, 1 : Digital filter(torque), 2 : Moving average filter (rotation speed) 3 : Minimum display rotation speed		
6	Digital filter(torque)	0	0 : 1, 1 : 3, 2 : 10, 3 : 30, 4 : 100, 5 : 300, 6 : 1k, 7 : PASS		
7	Moving average filter (rotation speed)	0	0 : OFF, 1 : 3, 2, 4, 3 : 8, 4 : 16, 5 : 32		
8	Minimum display rotation speed	00	00 to 99		
9	Operation instruction	0	0 : None, 1 : Dizital zero, 2 : Dizital zero reset		

Mode7

Setting code	Function	Initial value	Setting range	LOCK1	LOCK2
1	Output data selection	000		⊙	
	Data selection1(torque)	└─┐	0 : Hold synchronized 1 : Hold not synchronized		
	Data selection2 (rotation speed)	└─┐	0 : Hold synchronized 1 : Hold not synchronized		
	Data selection3 (power/angle)	└─┐	0 : Hold synchronized 1 : Hold not synchronized		
2	Zero scale value1(torque)	0	-99999 to 99999		⊙
3	Full scale value2(torque)	10000	-99999 to 99999		⊙
4	Zero scale value1(rotation speed)	0	-99999 to 99999		⊙
5	Full scale value2(rotation speed)	10000	-99999 to 99999		⊙
6	Zero scale value3(power/angle)	0	-550 to 550 (When number of rotations is set) -9999 to 9999 (When pulse rate is set) -99999 to 99999 (When power is set)		⊙
7	Full scale value3(power/angle)	10000	-550 to 550 (When number of rotations is set) -9999 to 9999 (When pulse rate is set) -99999 to 99999 (When power is set)		⊙
8	Angle analog output select	0	0 : Number of rotations, 1 : Pulse rate	⊙	

Mode8

Setting code	Function	Initial value	Setting range	LOCK1	LOCK2
1	Zero scale adjustment(torque)(※)	0	-5461 to 5461		⊙
2	Full scale adjustment(torque)(※)	0	-5461 to 5461		⊙
3	Zero scale adjustment (rotation speed)(※)	0	-5461 to 5461		⊙
4	Full scale adjustment (rotation speed)(※)	0	-5461 to 5461		⊙
5	Zero scale adjustment(power/angle)	0	-5461 to 5461		⊙
6	Full scale adjustment(power/angle)(※Adj key	0	-5461 to 5461		⊙

Mode9

Setting code	Function	Initial value	Setting range	LOCK1	LOCK2
1	Zero calibration	0			⊙
2	Actual load calibration	100.00	-99999 to 99999		⊙
3	Equivalent input calibration	100.00	1 to 99999		⊙
4					
5					
6	Supported device display	---	Ut3		
7	Version display	***			
8	Checksum display	****			
9	Password	0000			

* LOCK1 → Setting value LOCK
LOCK2 → Calibration value LOCK