HIGH-SPEED TORQUE MO FOR UTMII/UTM II /UTMV

HIGH-SPEED TORQUE MONITOR



CE RHS2

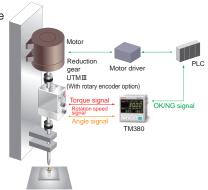
Suitable torque meter UTMII UTMII





- High-speed sampling at 16000 times/sec.!!
- Compatible with encoder option of UTM series
- Equipped with display connection data(*1) of UTMⅢ and comparison function.
- Torque, rotation speed and angle are displayed simultaneously.
- Hold function
- Upper/lower comparators function
- Equipped with data memory function (Torque, rotation speed, angle, the latest 30 items are recorded)
- The unit supplies electric power to UTMIII/UTM II/UTMV.
- *1 RS-485 interface (torque, rotation speed)
- * Please consult us when connecting to UTF $\rm I\!I$

■ Usage example



DTC2: Case for TM380 (with AC power supply) 190 JABOOO 120 143 Unit: mi

Specifications

Analog section	- Torque sensor input (voltage input)		
section	Signal input range-10 to +10 V (UTM		
	A	-5 to +5 V (UTM II /UTMV) Input resistance 1 M or more	
	Accuracy	Non-linearity: Within 0.02% FS±1 digit Zero drift: Within 0.2 mV/°C RTI	
		Gain drift: Within 0.01%/℃	
	A/D converter	Speed: 16000 times/sec.	
	74B converter	Resolution: 24 bit (binary) 1/30000 with respect to 10 V	
	Digital low pass filter	PASS,3 Hz to1 kHz	
	Digital high pass filter	PASS,3 Hz to1 kHz	
	- Voltage output Input voltage cuff (For		
		se input, open collector) (UTMII/UTM II /UTMV)	
		Based on UTMIII/UTM II /UTMV Select from 15, 10, 5, 3, or 2 rpm (when pulse rate is 4 ppr)	
	wiiriirium input frequency	Select from 60, 40, 20, 12, or 8 rpm (when pulse rate is 4 ppr)	
	Minimum detection pulse width	50 μs	
		No-voltage contact input (minus common)	
		Open collector connectable (Ic = Approx. 10 mA)	
		input, open collector) * For using rotary encoder option	
	Maximum input frequency	5000 rpm	
	Minimum input frequency	0.1 rpm * The resolution depends on the settings of the rotation speed	
	Minimum detection pulse width	5 μs and the number of the output pulse.	
	Circuit configuration	No-voltage contact input (minus common)	
		Open collector connectable (Ic = Approx. 10 mA)	
	- Encoder input (Pulse input)		
	Compatible with encoder option of U		
Display	Display Main display: Character heig	ht 15 mm Numerical display by 7-segment green LED (5-digit+sign)	
section		nt 8 mm Numerical display by 7-segment green LED (5-digit)	
		-digit -99999 to +99999 Signs: Minus sign on most significant digit	
	Sub-display (Rotation speed): 5 digit 0 to +99999		
		ngle): -19999 to +19999 Signs: Minus sign on most significant digit	
	Decimal point 0, 0.0, 0.00, 0.0		
	U (Rotation spe	ed Low-speed rotation mode 0.0)	
	Display frequency Select from 3, 6	ngle Depending on unit and min. scale division setting) 6, 13, and 25 times/sec.	
	Status display HI / LO / HOLD		
		nding on angle unit setting)	
Hold	Sample, Peak, Bottom, P-P, Average, Peak (angle), Peak (angle+torque)		
HOIG	Hold section setting (All section • External signal • External signal+Time • Level+Time)		
E		reset / Digital Zero / Angle zero clear/ Record data clear	
External I/O section		cuit (minus common type), Ic = 10 mA or less	
		omparison (alarm HI · HI · OK · LO · alarm LO) /	
	(13) Rotation speed HI/LO limit comparison (alarm HI · HI · OK · LO · alarm LO) / Hold complete / RU		
	Timing output/ Abso	lute value display	
	Open collector output	t circuit (sink type), Vceo = 30 V (max) lc = 30 mA (max)	
Interface	SIF: 2-wire serial interface	DAV: D/A converter voltage output (Option)	
	232: RS-232C communication interfa		
	BCO: BCD parallel data output interfa	ce (Option) DAI: D/A converter current output (Option)	
	USB: USB interface (Option)		
	* Only one option can be installed.		
General		C 24 V±15%	
performance		W typ.	
	Operating conditions O	peration: -10 to +50°C Storage: -40 to +80°C	
	Dimensions 0	umidity: 85% RH or less (non-condensing)	
		6(W) × 96(H) × 138(D) mm (Projections excluded)	
Attachments	Operation manual·····	pprox. 1.2 kg 1 Unit seal 1	
Attachments	External input/output connector·····		
	Connector for BCD output (with BCO		
	Mini screwdriver (with D/A converter of		
	CA372-I/O: Cable with FCN connector at or		
Optional accessories	CA372-VO: Cable With FCN connector at or CA81-USB: miniUSB-computer USB cable		
	CATM321-M: Cable for UTMIII connection 2		
	CATM351-M: Cable for UTMIII connection :		
	CATM221-MC: Cable for UTM II /UTMV con		
	CATM251-MC: Cable for UTM II /UTMV con		
	CATM(R)321-M: Cable for connecting UTM		
	CATM(R)351-M: Cable for connecting UTM		
	CATM(R)321-MR: Cable for connecting UTM		
	CATM(R)351-MR: Cable for connecting UTM		
	CATM(R12)321-M: Cable for connecting UT	IMIII (RC) rotary encoder 2 m	
	CATM(R12)351-M: Cable for connecting UT		
CE marking			

Please note that there are possibilities of individual differences in a color tone on display devices such as LEDs fluorescent display tubes and LCDs due to manufacturing process or production lots

Structure of product code

TM380 (1) 2

① Standard unit

② Interface

Sign Interface Standard SI/F One optional interface can be added in addition to the standard interface

232	RS-232C
BCO	BCD output (Sink type)
D3V	D/A converter voltage output (3 ch)
DAV	D/A converter voltage output
DAI	D/A converter current output
USB	USB

External dimension

