特力材料 886-3-5753170 勝 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

## **PRECISION MOTOR-POTENTIOMETERS**

#### **Motor-Potentiometer**

Coupled Potentiometer				Gear Ratio	A Motor		B Motor		C Motor	
No. Pot. Model of No.	(mN•m)				1-turn pot. (Second)	10-turn pot. (Second)	1-turn pot. (Second)	10-turn pot. (Second)	1-turn pot. (Second)	10-turn pot. (Second)
1 CP22, CP50	20 to 30		5	1:41	ON.	177	0.6	4.9	NOY.C	0 <u>N1.</u>
10 25HP-10, 22HHP-10	50	В	6	1:76	CO <sub>Mr</sub> .	TAL	0.7	6.2	1001	COM
FCP22A, 1 FCP30A, FCP50A	20 to 30		7	1:141	0.9	7.8	1.0	9.8	N.1005	Y.COM
CP22C, CP22	00.45		8	1:262	1.2	11.2	N 1.6	15.7	11.1	or co
1 FCP22AC, FCP22A, FCP30A	20 to 30	В	9	1:485	1.8	17.9	2.9	28.1	M.M.Y.	00X.C
20HP-10S, 10 25HP-10, 20HHP-10S	50		10	1:900	3.2	31.2	6.0	60.0	N H W	Yoo
			11	1:1670	5.6	55.7	9.4	93.8	WW	Q.100
1 CP50, FCP50A	50	M.T	25	1:30.7	W-100	<u>-</u> c0	M-7	-	0.3	2.3
			26	1:54.6	- 10	01-	T.T.	-	0.4	4.0
						No.	<u> </u>	<u>- I</u>		7.0
		C					O'A'A'			12.5
10 46HD-10	01.C				-	109	COM			22.2 39.4
	50					11001				70.1
			32	1:1734	N. N	- 00	1.CUM	W.	12.5	124.7
	Potentiometer           No. of Turns         Pot. Model No.           1         CP22, CP50           10         25HP-10, 22HHP-10           1         FCP22A, FCP30A, FCP50A           1         FCP22A, FCP22A, FCP22A, FCP22A, FCP30A           1         CP22C, CP22           1         CP22A, FCP30A           20HP-10S, 20HP-10S, 20HP-10S           1         CP50, FCP50A           1         CP50, FCP50A	Potentiometer         Torque (mN-m)           No. of Turns         Pot. Model No.         Torque (mN-m)           1         CP22, CP50         20 to 30           10         25HP-10, 22HHP-10         50           1         FCP22A, FCP30A, FCP50A         20 to 30           1         FCP22A, FCP22A, FCP22A, FCP22A, FCP22A, FCP30A         20 to 30           1         CP22C, FCP22A, FCP30A         20 to 30           10         20HP-10S, 20HP-10S         50           1         CP50, FCP50A         50	Potentiometer         Torque (mN-m)         Code (mN-m)           No. of Turns         Pot. Model No.         (mN-m)         Code           1         CP22, (CP50)         20 to 30         (mN-m)         B           10         25HP-10, 22HHP-10         50         B           1         FCP22A, FCP50A         20 to 30         B           1         FCP22A, FCP50A         20 to 30         A           1         FCP22A, FCP30A         20 to 30         B           1         20HP-10S, FCP22A, FCP30A         50         B           10         20HP-10S, 25HP-10, 20HHP-10S         50         B           1         CP50, FCP50A         50         C           1         CP50, FCP50A         50         C	Potentiometer furns         Pot. Model No.         Torque (mN-m)         Code Code         Gear Code           1         CP22, CP50         20 to 30         5         6           10         25HP-10, 22HHP-10         50         B         6           1         FCP22A, FCP50A         20 to 30         7         7           1         FCP22A, FCP50A         20 to 30         7         8           1         FCP22A, FCP50A         20 to 30         A         9           1         FCP22A, FCP30A         20 to 30         A         9           1         FCP22A, FCP30A         50         B         10           1         Z0HP-10S, 20HP-10S         50         E         26           1         FCP50, FCP50A         50         C         27           1         28         29         30         31           10         46HD-10         50         31         31 <td>Potentiometer         Torque (mN-m)         Code (mN-m)         Gear (Code (mN-m))         Gear (mn-m))         Gear (mn-m)         Gear (mn-m)</td> <td><math display="block"> \begin{array}{ c c c c c c } \hline Potentiometer \\ \hline No. of \\ \hline Iurns \\ \hline No. \\ \hline N</math></td> <td>Potentiometer         Torque (mN-m)         Code (mN-m)         Gear Code (mN-m)         Gear Code (mN-m)         Gear (mN-m)         Gear (mN-m)         Gear (mN-m)         Gear (mN-m)         Gear (mN-m)         I-turm pot. (Second)           1         CP22, (CP50)         20 to (Second)         50         <math>30</math> <math>50</math> <math>1.41</math> <math> -</math>           10         25HP-10, (Second)         50         <math>B</math> <math>6</math> <math>1.76</math> <math> -</math>           11         FCP22A, FCP30A, FCP50A         20 to (Second)         <math>7</math> <math>1:141</math> <math>0.9</math> <math>7.8</math>           1         FCP22A, FCP50A         20 to (Second)         <math>30</math> <math>7</math> <math>1:141</math> <math>0.9</math> <math>7.8</math>           1         FCP22A, FCP50A         <math>20</math> to <math>30</math> <math>A</math> <math>9</math> <math>1:485</math> <math>1.8</math> <math>17.9</math>           1         FCP22A, FCP30A         <math>20</math> to <math>30</math> <math>A</math> <math>B</math> <math>10</math> <math>1:900</math> <math>3.2</math> <math>31.2</math>           10         <math>20HP-10S, 25HP-10, 20HP-10S, 25HP-10, 20HHP-10S</math> <math>50</math> <math>50</math> <math>111</math> <math>1:1670</math> <math>5.6</math> <math>55.7</math>           11         <math>CP50, FCP50A</math> <math>50</math> <math>50</math> <math>50</math></td> <td>Potentiometer         Torque (mN-m)         Code (mN-m)         Gear Code         Gear Ratio         Gear (Second)         I-turn pot. (Second)         1-turn pot. (Second)         1-turn pot. (Second)&lt;</td> <td>Potentiometer for turns         Pot. Model No.         Torque No.         Code No.         Gear Ratio         Gear Ratio         <math>V = V = V = V</math> <math>V = V = V = V</math> <math>V = V = V</math>           1         CP22, CP50         20 to 30         20 to 30         <math>50</math> <math>B</math> <math>5</math> <math>1:41</math> <math>  0.6</math> <math>4.9</math>           10         <math>25HP-10,</math> 22HHP-10         <math>50</math> <math>B</math> <math>B</math> <math>6</math> <math>1:76</math> <math>  0.6</math> <math>4.9</math>           10         <math>25HP-10, 22HHP-10         <math>50</math> <math>B</math> <math>B</math> <math>6</math> <math>1:76</math> <math>  0.7</math> <math>6.2</math>           11         FCP22A, FCP50A         <math>20</math> to 30</math> <math>P</math> <math>B</math> <math>1:262</math> <math>1.2</math> <math>11.2</math> <math>1.6</math> <math>15.7</math>           11         <math>FCP22A, FCP2A, FCP30A         <math>20</math> to 30</math> <math>A</math> <math>B</math> <math>100</math> <math>1:90</math> <math>3.2</math> <math>31.2</math> <math>6.0</math> <math>60.0</math>           10         <math>20HP-10S, FCP30A         <math>50</math> <math>50</math> <math>50</math> <math>110</math> <math>1:900</math> <math>3.2</math> <math>31.2</math> <math>6.0</math> <math>60.0</math>           11         <math>1:1670</math> <td< math=""></td<></math></td> <td>Potentiometer         Torque (mN-m)         Code (mN-m)         Gear (Code (Code)         Gear (Code (Second)         Gear (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Second)         &lt;</td>	Potentiometer         Torque (mN-m)         Code (mN-m)         Gear (Code (mN-m))         Gear (mn-m))         Gear (mn-m)         Gear (mn-m)	$ \begin{array}{ c c c c c c } \hline Potentiometer \\ \hline No. of \\ \hline Iurns \\ \hline No. \\ \hline N$	Potentiometer         Torque (mN-m)         Code (mN-m)         Gear Code (mN-m)         Gear Code (mN-m)         Gear (mN-m)         Gear (mN-m)         Gear (mN-m)         Gear (mN-m)         Gear (mN-m)         I-turm pot. (Second)           1         CP22, (CP50)         20 to (Second)         50 $30$ $50$ $1.41$ $ -$ 10         25HP-10, (Second)         50 $B$ $6$ $1.76$ $ -$ 11         FCP22A, FCP30A, FCP50A         20 to (Second) $7$ $1:141$ $0.9$ $7.8$ 1         FCP22A, FCP50A         20 to (Second) $30$ $7$ $1:141$ $0.9$ $7.8$ 1         FCP22A, FCP50A $20$ to $30$ $A$ $9$ $1:485$ $1.8$ $17.9$ 1         FCP22A, FCP30A $20$ to $30$ $A$ $B$ $10$ $1:900$ $3.2$ $31.2$ 10 $20HP-10S, 25HP-10, 20HP-10S, 25HP-10, 20HHP-10S$ $50$ $50$ $111$ $1:1670$ $5.6$ $55.7$ 11 $CP50, FCP50A$ $50$ $50$ $50$	Potentiometer         Torque (mN-m)         Code (mN-m)         Gear Code         Gear Ratio         Gear (Second)         I-turn pot. (Second)         1-turn pot. (Second)         1-turn pot. (Second)<	Potentiometer for turns         Pot. Model No.         Torque No.         Code No.         Gear Ratio         Gear Ratio $V = V = V = V$ $V = V = V = V$ $V = V = V$ 1         CP22, CP50         20 to 30         20 to 30 $50$ $B$ $5$ $1:41$ $  0.6$ $4.9$ 10 $25HP-10,$ 22HHP-10 $50$ $B$ $B$ $6$ $1:76$ $  0.6$ $4.9$ 10 $25HP-10,22HHP-10         50 B B 6 1:76   0.7 6.2           11         FCP22A,FCP50A         20 to30$ $P$ $B$ $1:262$ $1.2$ $11.2$ $1.6$ $15.7$ 11 $FCP22A,FCP2A,FCP30A         20 to30$ $A$ $B$ $100$ $1:90$ $3.2$ $31.2$ $6.0$ $60.0$ 10 $20HP-10S,FCP30A         50 50 50 110 1:900 3.2 31.2 6.0 60.0           11         1:1670 $	Potentiometer         Torque (mN-m)         Code (mN-m)         Gear (Code (Code)         Gear (Code (Second)         Gear (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Mode) (Second)         (Second)         <

#### **Low-Cost Versions**



# MPH22A7FCP22E

(1-turn Low-cost type)



# MPH30A1022HP-10

WWW.100Y.COM.TW

WWW.100Y.COM.TV

(10-turn Low-cost type)

74		I-turn Low-Cost					1.100	DOM.TW
Model No.		Coupled tentiometer	Torque		Reduction Gear Code		N.100V N	Notor
	No. of Turns	Pot. Model No.	(mN-m)				1-turn pot. (Second)	10-turn pot. (Second)
	1	FCP22E	20 to 30		7	1:141	0.9	7.8
	I	FGF22E	20 10 30		8	1:262	1.2	11.2
MPH22 MPH30			10	A	9	1:485	1.8	17.9
10111100	10	22HP-10	50		10	1:900	3.2	31.2
			.WW.		CO11	1:1670	5.6	55.7

Reduction gears other than above are available on request.

# Rated Specifications of Coupled Motor

Model Code	Max. Output P(W)	Starting Torque Mdk (mN•m)	Max. Efficiency (%)	Operating Voltage U(V)	No. Load Speed nL(r.p.m)	- C
А	0.26	0.52	65	6	19,100	
В	0.43	1.55	70	6	10,700	
С	3.1	14	87	6	8,350	MPH22E



B7CP22G

Special specifications of other various types of motor-potentiometers are

(2 ganged pot. is

available on request.

combined

## SPECIALLY ORDERED ITEM



We can also supply special electromechanical unit consisting of our motor-pot. and mechanical parts on request.

勝特力材料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

## SERVO-AMPLIFIER

### Servo-Amplifier for use with Motor-Potentiometer



AP-1231

(Dimensions : 108×74×24.5mm)									
Model No.	Input Impedance	Max.Input Voltage	Gain Range (V/V)	Max. Output Current (Approx.)	Drift (converted into input)	Power Supply Voltage			
AP-1231	> 1M ohm	±10V	0.2 to 80	±1A	< 1mV/ ° C	24V.D.C±10%			

- NOTE: (1) We assume no responsibility on so-called "products liability", unless we are fully noticed of the use or applications and a written confirmation to do so was issued from us.
  - (2) All details given in this home page may be subject to change without notice in order to improve their qualities and designs.
  - (3) For further details, please request us general catalogs on precision potentiometers, dials, servo WWW.100Y.COM components and joystick controllers/foot controllers, respectively and separately.