

Alfa Radio Ltd.

11512 - 154t., Edmonton, Alberta, Canada T5M 1X8:
www.alfaradio.ca email: sales@alfaradio.ca
 (780) 466 5779



ROTATOR	RAU	RAK	BIG-RAK
Rotating Torque ROT1 Prog @ 18V MD-01/02 @ 24V	900 in lb or 102 N m 1800 in lb or 203 N m	1800 in lb or 203 N m 3240 in lb or 366 N m	8000 in lb or 904 N m Contact Alfa
Braking Torque in lb or N m	8,000 in lb or 904 N m	14,000 in lb or 1582 N m	24,000 in lb or 2712 N m
Vertical Load in lb or kg	350 lb or 159 kg	550 lb or 249 kg	>700 lb or 318 kg
Brake Type	Double Worm	Double Worm	Double Worm
Encoder type	Magnetic Reed Switch	Magnetic Reed Switch	Magnetic Reed Switch
Resolution	1 Pulse/Degree	1 Pulse/Degree	1 Pulse/0.5 Degree
Rotating Angle	360 Degree +/- 180 (720 Degree Total)	360 Degree +/- 180 (720 Degree Total)	360 Degree +/- 180 (720 Degree Total)
Rotating Time for 360 Degrees ROT1 Prog @ 18V MD-01/02 @ 24V	45 Seconds	90 Seconds 45 Seconds	240 Seconds 145 Seconds
Electric Motor	12V	12V	12V
Environment	-20 +50 Degree C	-20 +50 Degree C	-20 +50 Degree C
Weight lb/ Mass kg	18 lb / 8 kg	26 lb /12 kg	33 lb /15 kg

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Rotator	Mini-RAS	RAS	BIG-RAS
Rotating Torque ROT2 Prog @ 18V MD-01/02 @ 24V	1650 in lb or 186 N m 1970 in lb or 222 N m	1,800 in lb or 203 N m 3,240 in lb or 366 N m	8,000 in lb or 904 N m Contact Alfa Radio
Braking Torque in lb or N m	8,000 in lb or 904 N m	14,000 in lb or 1582 N m	24,000 in lb or 2712 N m
Vertical Load in lb or kg	400 lb or 181 kg	550 lb or 250 kg	>700 lb or 318 kg
Brake Type	Double Worm	Double Worm	Double Worm
Encoder Type	Magnetic Reed Switch	Magnetic Reed Switch	Magnetic Reed Switch
Resolution	1 Pulse/Degree	1 Pulse/Degree	1 Pulse/0.5 Degree
Rotation Angle AZ Rotation Angle EL	360 +/- 180 (720) Deg 180 Deg	360 +/- 180 (720) Deg 180 Deg	360 +/- 180 (720) Deg 180 Deg
Rotation Time 360 Degrees ROT2 Prog @ 18V MD-01/02 @ 24V	60 Seconds 46 Seconds	90 Seconds 45 Seconds	240 Seconds 145 Seconds
Electric Motor	12 V	12 V	12 V
Environment	-20 +50 Degree C	-20 +50 Degree C	-20 +50 Degree C
Weight lb/ Mass kg	23 lb / 10.3 kg	42 lb /19 kg	55 lb / 25 kg

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ROTATOR	RAEL @ (18v ROT1 or ROT2)	RAEL @ (24V MD-01/02 only)
Rotating Torque	1800 in lb or 203 N m	3240 in lb or 366 N m
Braking Torque in lb or N m	14,000 in lb or 1582 N m	14,000 in lb or 1582 N m
Vertical Load in lb or kg	350 lb or 159 kg	350 lb or 159 kg
Brake Type	Double Worm	Double Worm
Encoder type	Magnetic Reed Switch	Magnetic Reed Switch
Resolution	1 Pulse/Degree	1 Pulse/Degree
Rotating Angle	180 Deg	180 Deg
Rotating Time for 180 Degrees	90 Seconds	60 Seconds
Electric Motor	12V	12V
Environment	-20 +50 Degree C	-20 +50 Degree C
Weight lb/ Mass kg	14.4 lb / 6.5 kg	14.4 lb /6.5 kg

Alfa /**HR** rotators have the same specifications as the units above with the exception of Resolution, which is 0.2 Degrees

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Specifications: Alfa controllers	ROT1PROG When used with RAU, RAK or REAL 13.8 – 18 V AC or DC	ROT2PROG When used with RAS or REAL 13.8 – 18 V AC or DC
Computer interface	USB 1200 baud 8 N 1	USB 600 baud 8 N 1
Pre sets with Mouse	6 User settable presets	N/A
Emulation	Spid, Hygain, Orion, Yaesu	Spid, Yaesu
Limit settings	2 – AZ CW point & CCW point	4 (2 AZ - 2 EL)
User settable calibration	N or S or any Degree	AZ & EL, any Degree
Resolution	1 / 0.5 Deg	1 , 0.5, 0.25 Deg
Rotation Range (up to)	720 Deg	AZ 720 Deg. EL 180 Deg.
Weight lb / Mass Kg	2.75 lb / 1.2 kg	4.75 lb / 2.1 kg
Connections to Rotator	4 wires (2 sens, 2 motor)	4 wires (2 sens, 2 motor) EL 4 wires (2 sens, 2 motor) AZ Total 8 wires RAS , 4 wires for REAL
Specifications: Alfa controllers	MD-01/02 When used with RAU, RAK, RAS or REAL 13.8 – 24V AC or DC	
Computer interface	RS-232 - USB – Optional Ethernet	
Pre sets with Mouse	N/A	
Emulation	Spid-ROT1, Spid-ROT2, Spid-MD-01, Yaesu	
Limit settings	4 (2 AZ - 2 EL)	
User settable calibration	AZ & EL, any Degree	
Resolution	1 , 0.5, 0.1 Deg	
Rotation Range (up to)	AZ 720 Deg. EL 180 Deg.	
Weight lb / Mass Kg	16 lb / 7 kg	
Connections to Rotator	4 wires (2 sens, 2 motor) EL & 4 wires (2 sens, 2 motor) AZ Total 8 wires RAS , 4 wires for REAL 4 motor wires & 6 sens wires for RAS/HR 2 motor wires & 4 sens wires for RAK/HR	

All specifications may change without further notice and all values are approx.