

# DM556M/ DM556EU/ DM556/ EM556S Comparison



## Comparison of Digital Drivers

DM556M/ DM556EU/ DM556/ EM556S

Mecheltron GmbH & Co.KG has drivers from various price ranges, performance levels and manufacturers in its portfolio. Below you will find a comparison of stepper motor drivers for operating voltages up to 50 volts.



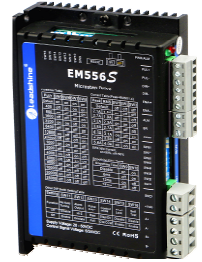
Mecheltron DM556M



Leadshine DM556EU



Leadshine DM556



Leadshine EM556S

	DM556M		DM556EU		DM556		EM556S			
Auto-tuning		X		✓		✓		✓		
Anti-resonance		✓		✓		✓		✓		
Extra-low motor noise		✓		✓		✓		✓		
Idle-current reduction		✓		✓		✓		✓		
Protection for over-voltage/ over-current		✓		✓		✓		✓		
Optical isolated inputs		✓		✓		✓		✓		
Input PUL/ DIR		✓		✓		✓		✓		
CW/ CCW mode		X		X		✓		✓		
RS232 programming		X		X		✓		✓		
Fault & Brake Output		X		X		X		✓		
Self-test via DIP switch		X		X		X		✓		
Current setting via software (steps 0.1 A)		X		X		✓		✓		
Current setting via DIP switches (steps)		8		8		8		8		
Steps/ revolution via DIP switches		200-51.200		400 - 25.600		400 - 25.600		200 – 25.600		
Selectable micro-step resolutions via DIP switche		16		16		16		16		
Steps/ revolution via software (increase by 200)		N		N		200 - 102.400		200 - 51.200		
Voltage tolerance of inputs (High Level)		3,3-5,0 V (TTL)		3,3 - 5,0 V (TTL)		3,3 - 5,0 V (TTL)		3,3 - 5,0 V (TTL)/ 12 - 24 V		
Dimensions [mm]		118 x 75 x 32		118 x 75,5 x 34		118 x 75,5 x 34		118 x 75,5 x 34		
Connectors:		WANJIE: WJ2EDGK, 5,0 mm Pitch, 2-Pin WANJIE: WJ2EDGK, 5,0 mm Pitch, 4-Pin WANJIE: WJ2EDGK, 5,0 mm Pitch, 6-Pin		WANJIE: WJ2EDGK, 5,0 mm Pitch, 2-Pin WANJIE: WJ2EDGK, 5,0 mm Pitch, 4-Pin WANJIE: WJ2EDGK, 5,0 mm Pitch, 6-Pin		ANYTEK: TJ, 3,81 mm Pitch, 2-Pin ANYTEK: TJ, 3,81 mm Pitch, 4-Pin ANYTEK: TJ, 3,81 mm Pitch, 6-Pin		ANYTEK: TJ, 3,81 mm Pitch, 3-Pin ANYTEK: TJ, 3,81 mm Pitch, 6-Pin ANYTEK: TJ, 5,0 mm Pitch, 2-Pin ANYTEK: TJ, 5,0 mm Pitch, 4-Pin		
Weight		250 g		300 g		280 g		250 g		
		Min	Max	Min	Max	Min	Max	Min	Max	Units
Output current via DIPs		1,8	5,6	1,8	5,6	0,5	5,6	1,8	5,6	A
Output current via SW						0,5	5,6	0,5	5,6	A
Supply voltage		20	50	20	50	20	50	20	50	VDC
Logical signal current		7	16	7	16	7	16	7	16	mA
Pulse input frequency		0	200	0	200	0	200	0	200	kHz
Minimal pulse width		2,5		2,5		2,5		2,5		µs
Minimal direction timing		5,0		5,0		5,0		5,0		µs
Insulation resistance		500		500		500		500		MΩ