

Motor Analysis INSTRUMENTS

Configurations w.r.t 14 DIP Switches						
Parameters	Switch No.	Range	Range Value	Voltage	Frequency	Notes
IR (Insulation Resistance) 500 V	SW6, SW9, SW11	1	0 - 12 MΩ	2.0 V – 80 mV		
	SW6, SW9	2	12 MΩ - 120 MΩ	0.8 V – 80 mV		
	SW6	3	120 MΩ - 2000 MΩ	0.8 V – 50 mV		
IR (Insulation Resistance) 1000 V	SW6, SW9, SW11, SW10	1	0 - 12 MΩ	2.0 V – 80 mV		
	SW6, SW9, SW10	2	12 MΩ - 120 MΩ	0.8 V – 80 mV		
	SW6, SW10	3	120 MΩ - 2000 MΩ	0.8 V – 50 mV		
Resistance	SW1, SW5, SW7, SW8	1	0 - 400 mΩ	0 – 1.0 V		
	SW2, SW5, SW7, SW8	2	400 mΩ - 2 Ω	0.20 V – 1.0 V		
	SW2, SW5, SW7	3	2 Ω - 10 Ω	0.20 V – 1.0 V		
	SW1, SW2, SW5, SW7	4	10 Ω - 50 Ω	0.20 V – 1.0 V		
	SW5, SW8	5	50 Ω - 200 Ω	0.25 V – 1.0 V		
Inductance & Rotor	SW1, SW3, SW7, SW8	1	0 - 4 mH	0 – 1.0 V		
	SW2, SW3, SW7, SW8	2	4 mH - 20 mH	0.20 V – 1.0 V		
	SW2, SW3, SW7	3	20 mH - 100 mH	0.20 V – 1.0 V		
	SW1, SW2, SW3, SW7	4	100 mH - 500 mH	0.20 V – 1.0 V		
	SW3, SW8	5	500 mH - 2000 mH	0.25 V – 1.0 V		
Vibration	SW12	-	0 - 99.9 mm/s	0 – 1.0 V	0 – 1000 KHz	
Temperature	SW12	-	0 - 1000 °C	0 – 1.0 V	0 – 100 KHz	
Sound	SW12	-	30 dB - 130 dB	0 – 1.0 V	0 – 100 KHz	
Current	SW12	-	1 A - 1000 A	1.0 mV – 1.0 V		
Tachometer(RPM)	Direct to the processor					
Capacitance	Direct to the processor					
Phase Angle	Direct to the processor					
Voltage	Direct to the processor					
Battery Voltage	Direct to the processor(Voltage Divider Circuit)					

Short Word Representations		
S.No	Short Word	Represents
1.	OL	Out of Range
2.	Short	Short Circuit
3.	Open	Open Circuit
4.		