



PMD Series

Digital Multimeters

- ▶ PMD-01
- ▶ PMD-02
- ▶ PMD-02R
- ▶ PMD-03
- ▶ PMD-03R
- ▶ PMD-04



Our PMD Series Multimeters are able to calculate Current, Voltage, Frequency, $\text{Cos}\phi$, Active Power, Apparent Power, Reactive Power, Minimum and Maximum Voltage, Current Demand, Maximum Current Demand values of 3-phase electrical systems, with the hard work of our expert R&D team in the field of Power Quality and Energy solutions. It is designed and manufactured to measure and protect the system with alarm options.

It offers design and efficiency together with its 45-265V AC/DC wide supply range, ergonomic design in 96x96x51 mm dimensions and product range with advanced features.

- **128x64 Wide Graphic LCD Display**
- **Easy to Use with Turkish and English Menu Options**
- **Voltage, Current and Frequency Protection**
- **Phase-Phase or Phase-Neutral Protection**
- **Phase Sequence Error Information and Protection**
- **Event Logs**
- **Three-phase L-N and L-L Voltage Information**
- **Three-phase Current and Frequency Information**
- **Adjustable Relay Outputs**
- **V, A, P, Q, S, $\text{Cos}\phi$, $\sum P$, $\sum Q$, $\sum S$ (Monitoring Parameters)**
- **RS-485 Communication (Modbus RTU)**
- **Min, Max and Demands**
- **Connection Type (\wedge , Δ)**

Product Code	Product Description	Dimensions(mm)	Basic Parameters (Current-Voltage-Frequency)	Graphic LCD Display (128x64)	$\text{Cos}\phi$	Active Power ($P_1, P_2, P_3, \sum P$)	Reactive Power ($Q_1, Q_2, Q_3, \sum Q$)	Apparent Power ($S_1, S_2, S_3, \sum S$)	Demand - Max. Demand	Max-Min Values	Current-Voltage Unbalance	Over-Under Voltage Protection	Over-Under Current Protection	Over-Under Frequency Protection	Phase Seq. / Absence Protection	Inrush Current Protection	Total Hours of Operation	Output Relay X2	Alarm State Modes	45-265 V AC/DC Supply
PMD-01	Multimeter	96x96	●	●			●	●	●						●				●	
PMD-02	Adj. Multimeter	96x96	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	
PMD-03	Adj. Multimeter with Communication	96x96	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	
PMD-04	Adj. Multimeter with Communication	96x96	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

General Specifications Table

Product Code	PMD-01	PMD-02	PMD-02R	PMD-03	PMD-03R	PMD-04
Operating Voltage	45-265 V AC/DC					
Operating Frequency	45 - 65 Hz					
Current Transformer Ratio Range	1 ... 2000	1 ... 2000	1 ... 2000	1 ... 2000	1 ... 2000	1 ... 2000
Voltage Transformer Ratio Range	0,1 ... 4000,0	0,1 ... 4000,0	0,1 ... 4000,0	0,1 ... 4000,0	0,1 ... 4000,0	0,1 ... 4000,0
Current Measurement Range	0,05 - 5,5 AAC					
Voltage Measurement Range	10 - 300 Vac (L-N) 20 - 520 Vac (L-L)	10 - 300 Vac (L-N) 20 - 520 Vac (L-L)	10 - 300 Vac (L-N) 20 - 520 Vac (L-L)	10 - 300 Vac (L-N) 20 - 520 Vac (L-L)	10 - 300 Vac (L-N) 20 - 520 Vac (L-L)	10 - 300 Vac (L-N) 20 - 520 Vac (L-L)
Frequency	√	√	√	√	√	√
Cosφ	-	-	-	-	-	√
Neutral Current	-	-	-	-	-	√
Max-Min Voltage	√	√	√	√	√	√
Demand-Max Demand	√	√	√	√	√	√
Active Power	-	-	-	-	-	P1, P2, P3, ΣP
Reactive Power	-	-	-	-	-	Q1, Q2, Q3, ΣQ
Apparent Power	S1, S2, S3, ΣS					
Event Log	-	-	√	-	√	√
Over / Under Voltage Protection	-	√	√	√	√	√
Over / Under Current Protection	-	√	√	√	√	√
Over / Under Frequency Protection	-	√	√	√	√	√
Over Neutral Current Protection	-	-	-	-	-	√
Voltage Unbalance Protection	-	√	√	√	√	√
Current Unbalance Protection	-	√	√	√	√	√
Phase Seq. / Absence Protection	-	√	√	√	√	√
Sudden Tripping (Current / Voltage)	-	-	-	-	-	√
Inrush Current Protection	-	-	√	-	√	√
Resetable Total Hours of Operation	-	-	-	-	-	√
RS-485 Communication	-	-	-	√	√	√
Protection Class	IP54 (Front Panel) IP20 (Body)					
Output Relay X2	-	Max 5A 250 Vac Cosφ=1				
Indicator	LCD (128x64)					
Operating Temperature	-25°C....70°C	-25°C....70°C	-25°C....70°C	-25°C....70°C	-25°C....70°C	-25°C....70°C
Dimensions (mm)	96x96	96x96	96x96	96x96	96x96	96x96

Technical Specifications Table

Operating Voltage	45 – 265 VAC / DC %10
Operating Range	Un x (0,9 – 1,1)
Operating Frequency	45 – 65 Hz.
Power Consumption	3 – 6 VA
Measuring Inputs Power Consumption	< 0,5 VA
Current Measurement Range	50 mA AC – 5,5 AAC
Voltage Measurement Range	10 – 300 V AC (L-N) 20 – 520 V AC (L-L)
Current Transformer Ratio	1 – 2000 (10000/5)
Voltage Transformer Ratio	1.0 – 4000.0
Measurement Accuracy	
Voltage	1%
Current	1%
Frequency	1%
Active Power	1%
Reactive Power	1%
Apparent Power	1%
Relay Output	2 SPDT Relay NO Max 5A AC 250 VAC Cosφ=1
Protection Class	IP54 (Front Panel) IP20 (Body)
Device Protection Class	Double Insulated
Operating Temperature Range	-25 °C+70 °C
Humidity	Maximum %90
Operating Altitude	<2000 m
Panel Connection Type	Front
Connection Type	3P3W (Δ), 3P4W (\blacktriangle)
IK Code	IK06
Supply Terminal Cable Cross Section	Max 2,5 mm
Voltage Terminal Cable Cross Section	Max 2,5 mm
Current Terminal Cable Cross Section	Max 2,5 mm
Weight	238 gr