



MOD 8S1A

Frequency meter - 3 Digits 10-900 Hz

In its standard configuration, the MOD-8S1A is a microprocessor controlled, 3 digits, Frequency Meter. The meter especially designed for measuring power line frequency. It measures the frequency directly from the instrument supply with no separate connection required. The microprocessor controlled with crystal time base accuracy enables fast frequency measurement and simple operation. High brightness 0.56" LED display enables reading from a large distance.

General specifications

Conform to standards
 IEC 1812-1, EN 50081-1/2, EN 50082-1/2
 CE marking EMC (89/336/EEC, IEC 669-2-3).
 Installation category acc IEC 664-1 Voltage surge
 Creepage distance / clearance acc IEC 664-1 4kv / 3
 Electromagnetic compatibility Level III
 Immunity to electrostatic discharge
 Acc to IEC 1000-42 Air 8KV
 Immunity to electrostatic fields
 Acc IEC 1000-4-3 Level III 10V/m
 Immunity to rapid transient burst
 Acc IEC 1000-4-4 Level III
 Coupling clamp 1kv)
 Immunity to shock waves on
 Power supply acc IEC 1000-4-5 Level III
 Immunity to radiofrequency in
 Common mode acc ENV Level III (10V rms)
 Immunity to voltage dips / breaks 30% / 10ms
 Acc IEC 1000-4-11 60% / 100ms
 Mains-borne and radiated emissions
 Acc EN 55022 (EN 55011 Group 1) Class B

Range

Range	199.9Ω	1.999KΩ	19.99KΩ	199.9KΩ
Resolution	100mΩ	1Ω	10Ω	100Ω
Excitation current	10mA	1mA	100μA	10μA

Mechanical

Self-extinguishing plastic housing, IP40 acc IEC 529
 Mounted: front panel
 IP rating: IP20 acc IEC 529
 Terminal block: 4mm² 12AWG 250VAC
 Box measures: 96x48 mm

Ordering information

MOD 8S1 - R - V - P

MOD-8S1 — V

VAC
230VAC
110VAC
24VAC

60VDC
48VDC
24VDC
12VDC

230VAC
110VAC
24VAC

Technical Data

999 (3) count four scale
 Frequency range: 40Hz to 60Hz
 Fast low-frequency measurement:
 Every 100ms + 1 signal period
 0.56" bright red LED display
 Low power requirement
 DIN 43700 standard
 Connection: silver alloy. Terminal shrouded to prevent human contact, 4mm²

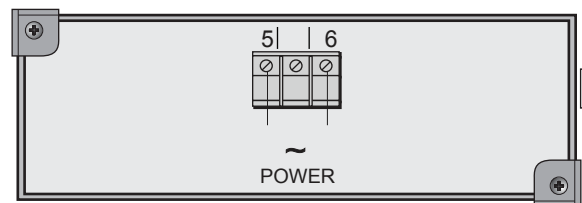
Ambient conditions

Operation temperature -20°C ... +55°C
 Storage temperature -25°C ... +70°C
 Transport temperature -25°C ... +70°C
 Relative humidity acc IEC 68-2-6 15% ... 85%
 Vibration resistance 10 to 55 Hz (according to IEC 68-2-6)
 Weight: 376 gr

Time base

Internal clock reference 6.000 Mhz Crystal Osc
 Calibration accuracy at 25°C ±10 PPM
 Temperature stability, 0-60°C ±60 PPM
 Long term drift: ±60 PPM/month

Back panel connection



Dimensions

