

# MOD 9S10A

## 3.5 Digits Ohmmeter with current excitation



The MOD-9S10A is an advanced, low cost resistance meter, with direct readout in ohms or engineering units. Four resistance range are: 19.99Ω, 199.9KΩ, 1.999KΩ and 19.99KΩ It is complete with current excitation. All meters are shipped fully scaled and calibrated in factory. Scaling and calibrating the 9S1a is very easy accessible using the rear panel trimmer. Using 4-wire connection the meter measures true voltage drop across the resistance under test eliminating any effect of lead resistance.

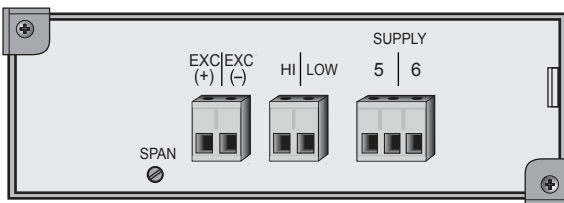
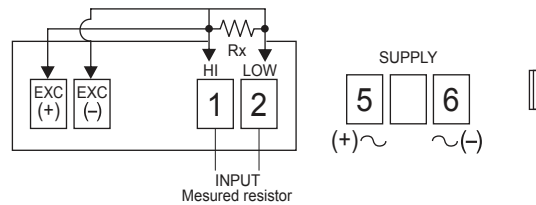
### Technical Data

±1999 (4½) count four scale  
 Display type : 4 1/2 - digit, 0.56" (14.2mm) high  
 Open circuit voltage 15VDC @ Supply voltage 230VAC / 110VAC  
 Open circuit voltage 10VDC @ Supply voltage 24VAC / 110VAC  
 Low power requirement  
 Wide range power supply option  
 Input voltage protection  
 Connections: Silver ally. Terminal shrouded to prevent human contact, 4 mm<sup>2</sup>  
 Accuracy: ± 0.1% of F.S reading ± 1 count accuracies are specified at 25°C  
 Power consumption: 2.3 VA  
 Stability w/Temp ±50ppm/°C

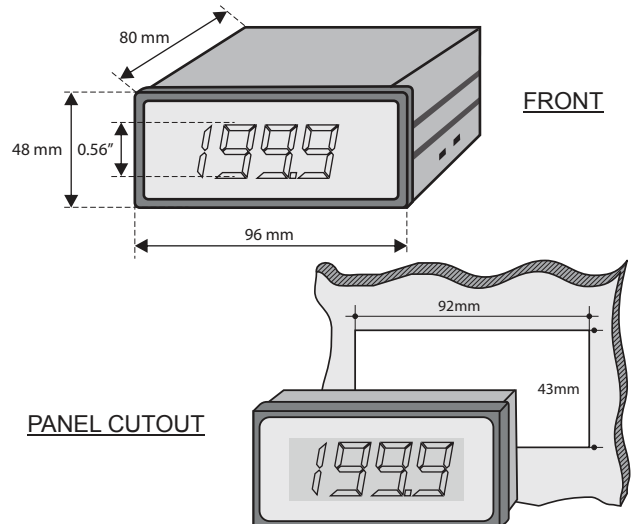
### Ambient conditions

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: 345 gr

### Back panel connection



### Dimensions



### 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

### Mechanical

Self-extinguishing plastic housing, IP40 acc IEC 529  
 Mounted: front panel  
 IP rating: IP20 ac IEC 529  
 Terminal block: 4mm<sup>2</sup> 12AWG 250VAC  
 Box measures: 96x48 mm

### Ambient conditions

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

### Ordering information

MOD-9S1A - R - V

|        |   |         |        |
|--------|---|---------|--------|
| Range: | 1 | 19.99Ω  | 230VAC |
|        | 2 | 199.9Ω  | 120VAC |
|        | 3 | 1999Ω   | 110VAC |
|        | 4 | 19.99KΩ | 48VDC  |
|        |   |         | 24VDC  |
|        |   |         | 24VAC  |
|        |   |         | 12VDC  |

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