



Frequency Selective Voltmeter



Aplab Frequency Selective Voltmeter incorporates Digital Signal Processing based design to provide high accuracy and stability. It is designed for level measurement of selected frequencies. It also provides functionality of AC and DC voltage measurements.

The purpose of Frequency Selective Voltmeter FSV-02 is to make adjustments, control measurements and inspections on both audio frequency track circuits of types FTGS 46, FTGS 917 and GLS 9/15 and axle counters type AZS350, AZSM 350, AZS(M). Its compactness and battery operation render the unit particularly suitable for portable applications in maintenance and for level measurement in communication systems.

Features

- Selective Measurement Incorporating Digital Signal Processing
- Multi-Mode Support FTGS / GLS / UNI Mode
- AC/DC Voltage Measurement
- Frequency Measurement

- Auto Ranging
- Battery Operated, Most Suitable for Field Operations
- Built-in Overload Protection
- LCD Display with Backlit Auto-OFF Facility

Technical Specifications

A. FTGS / GLS MODE Voltage Measuring Range : 40mV rms - 200V rms. **Range Selection** : Automatic with range hold facility. : <2% (For Umeas >100mV). Accuracy **Adjacent Channel Rejection** : >36dB (Each related to channel mean frequency). Rejection with 2-Channel Spacing : >46dB. Measurable Frequencies FTGS MODE • Band-I (3dB BW - 240Hz) : 4.75KHz, 5.25KHz, 5.75KHz, 6.25KHz, Band-II (3dB BW - 480Hz) 9.5KHz, 10.5KHz, 11.5KHz, 12.5KHz, 13.5KHz, 14.5KHz, 15.5KHz, 16.5KHz, : GLS MODE Band-I (3dB BW - 480Hz) : 9.5KHz, 10.5KHz, 11.5KHz, 12.5KHz, 13.5KHz, 14.5KHz. 300Vrms AC max. / 300V DC max. (dc+ac peak should be less than 450V). Input Protection • B. ZP 43 MODE : 280mV - 280V. **DC Voltage Measuring Range** : Automatic with range hold facility. **Range Selection** : <1% (For Umeas ≥100mV). Accuracy AC Voltage Measuring Range : 40mV rms - 200V rms. **Range Selection** : Automatic with range hold facility. Accuracy : <1% (For Fmeas = 43KHz ±10%, Umeas >50mV). Frequency Measuring Range : 00.10KHz to 99.99 KHz. : <0.5% (For Fmeas = 3KHz, Umeas >30mV). Accuracy Wideband AC Measuring Range : 300mVrms to 160Vrms. : 40Hz to 56KHz. 2.8V range Wideband AC Frequency Range 40Hz to 10KHz, 28V range 40Hz to 8KHz, 280V range. : Automatic with range hold facility. **Range Selection** Accuracy : <2%. C. UNI MODE **DC Voltage Measuring Range** : 280mV - 280V. **Range Selection** : Automatic with range hold facility. Accuracy : $\leq 1\%$ (For Fmeas ≥ 100 mV). Mains voltage Measuring Range : 17V rms to 260V vrms. Accuracy : <2% (At 50..60 Hz mains frequency). **Frequency Measuring Range** : 00.10KHz to 99.99KHz. Accuracy : <0.5% (For frequency above 3KHz, Umeas >30mV). D. GENERAL Input resistance : >200K OHMS. Display : LCD display with Backlit. Power : Internal Rechargeable Battery (Charger provided). Charger 1 Input : 230V AC ±10%. : 0°C to 50°C. **Operating Temperature** Storage Temperature : -25°C to 60°C. Connections : Two 4-mm laboratory safety sockets for single measuring lines with 4 mm (safety) split plugs. **E. ACCESSORIES** 5mm to 2mm Pin Test Leads (2 mtrs.) - 1 Pair 1 No. Charger Instruction Manual - 1 No.

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