

## **MARCONI TF2304 MODULATION ANALYZER SPECIFICATIONS SHEET**

### **FM/AM Modulation Meter**

- Automatic Operation
- Carrier Frequency Range: 9 to 12.5 MHz and 18 to 1000 MHz
- FM Deviation in Eight Ranges: 1.5 to 150 kHz FSD
- AM Depth in Three Ranges: 10, 30 and 100%
- Input Level Indication
- AC Supply and Rechargeable Battery Option

### **Specification**

#### **RF Input**

- Carrier Frequency Range: 9 to 12.5MHz and 18 to 1000MHz with automatic tuning and automatic level setting. Maximum time to reading: approximately 5 s
- Sensitivity: Better than 50mV up to 600MHz, better than 100mV up to 1000MHz
- Maximum Working Input: 1V RMS extending to 7V with switchable 20 dB nominal pad
- Maximum Safe Input: 1W (7V into 50 ohm) continuous
- Switchable Attenuator: 20 dB nominal
- Input Impedance: 50 ohm nominal
- Level Indication: Two LED lamps indicate if the input level is too low or too high

#### **Frequency Modulation**

- Deviation Ranges: Eight ranges (using x2 and x10 switches) giving full scale peak deviations of 1.5, 3, 5, 10, 15, 30, 50 and 150 kHz. Positive or negative deviation indication is selected by a switch
- Modulation Frequency Range: Over the range 50Hz to 9kHz

#### **Amplitude Modulation**

- Modulation Depth Range: Full scale indication 10%, 30% and 100% (usable up to 95%). Peak or trough indication selected by a switch
- Modulation Frequency Range: Over the range 50Hz to 9kHz

#### **IF Output**

- Frequency
- Level: 100mV EMF nominal from 1kohm source

#### **AF Output**

Demodulated AF output available at front panel socket

- Level: 1mW nominal into 600 ohm with meter at FSD
- 3 dB bandwidth: Nominally 20Hz to 15kHz

#### **Connectors**

BNC sockets for RF input, IF output and AF output