## specifications, model 153

## AS A VOLTMETER OR NULL DETECTOR:

RANGE: Zero-left: 10 microvolts full scale to 1000 volts in 17 overlapping $1 x$ and $3 x$ ranges.
Zero-center: 5 microvolts full scale to 500 volts in 17 overlapping $5 x$ and $15 x$ ranges.

ACCURACY (exclusive of nolse and drift):
$\pm 1 \%$ of fult scale on 3 -millivolt to 1000 -volt ranges.
$\pm 2 \%$ of full scale on 100 -microvolt to 1 -millivolt ranges.
$\pm 3 \%$ of full scale on 10 -microvolt and 30 -microvolt ranges.
ZERO DRIFT: Less than $\pm 2$ microvolts per 24 hours after warm-up with reasonably constant ambient temperature. Less than 8 microvolts during 2 -hour warm-up.
Long term drift is non-cumulative.
INPUT NOISE: Less than 0.06 microvalt rms 0.3 microvolt peak-to-peak) on most sensitive range with input shorted. Less than 0.1 microvolt rms ( 0.5 microvolt peak-to-peak) on most sensitive range with 1 megohm source.

## INPUT RESISTANCE:

Greater than 200 megohms on 100 microvolt to 1000 volt ranges.
Greater than 50 megohms on 30 microvolt range.
Greater than 20 megohms on 10 microvolt range.
NOTE: Input resistance of any range may be shunted by a 2 megohm resistor using the Function switch.

LINE FREQUENCY REJECTION: A power line or twice power line frequency which is $40 \mathrm{db}\left(\frac{p-p}{d c}\right)$ greater than fuli scate affects reading less than $0.5 \%$.
RISE TIME ( $\mathbf{1 0 \%}$ to $90 \%$ ): Less than 1 second on 100 -microvolt to 1000 -volt ranges.
Less than 5 seconds on 10 -microvolt and 30 -microvolt ranges.

## AS AN AMMETER:

RANGE: Zero-left: $10^{-11}$ ampere full scale to $10^{-1}$ ampere in 21 overlapping $1 x$ and $3 x$ ranges.
Zero-center: $5 \times 10^{-12}$ ampere full scale to $5 \times 10^{-2}$ ampere in 21 overlapping $5 x$ and $15 x$ ranges.
ACCURACY (exclusive of noise and drift):
$\pm 2 \%$ of full scale on $3 \times 10^{-9}$ ampere to $1 \times 10^{-1}$ ampere ranges.
$\pm 3 \%$ of full scale on $1 \times 10^{-10}$ ampere to $1 \times 10^{-9}$ ampere ranges.
$\pm 4 \%$ of full scale on $1 \times 10^{-11}$ ampere and $3 \times 10^{-11}$ ampere ranges.

ZERO DRIFT: Less than $\pm 2 \times 10^{-12}$ ampere per 24 hours after warm-up with reasonably constant ambient temperature. Less than $8 \times 10^{-12}$ ampere during 2 -hour warm-up.
INPUT NOISE (with input open): Less than $0.1 \times 10^{-12}$ ampere rms ( $0.5 \times 10^{-12}$ ampere peak-to-peak) on most sensitive range.
INPUT RESISTANCE: Varies from one ohm on $10^{-1}$ ampere range to one megohm on $10^{-11}$ ampere range.
RISE TIME ( $\mathbf{1 0 \%}$ to $\mathbf{9 0 \%}$ ): Less than 2 seconds on $10^{-10}$ ampere to $10^{-1}$ ampere ranges.
Less than 5 seconds on $10^{-11}$ ampere and $3 \times 10^{-11}$ ampere ranges.
GENERAL:
POLARITY:Meter switch selectsleft-zero(positive ornegative) or center-zero scales. Recorder output polarity is not reversed.
ISOLATION: Circuit ground to chassis ground: Greater than $10^{9}$ ohms shunted by 0.05 microfarad. Circuit ground may be floated up to $\pm 500$ volts dc or peak with respect to chassis ground.

## RECORDER OUTPUT:

Output: 0 to $\pm 1$ volt dc (adjustable) at up to one milliampere for full-scale meter deflection on any range.
Resistance: Less than 10 ohms with output potentiometer set for maximum output.
Voltage Gain: $\frac{\text { one volt }}{\text { Voltage setting in volts }}$
Noise: Input noise times voltage gain plus modulation products.
Modulation Products: Less than 5\% peak-to-peak of full scale with input shorted.
CONNECTORS: Input: Special TRIAX. Output: Binding posts. POWER: $105-125$ or $210-215$ volts (switch selected), 50 or 60 cps , 35 watts.
DIMENSIONS, WEIGHT: $101 / 2^{\prime \prime}$ high $\times 658^{\prime \prime}$ wide $\times 10^{\prime \prime}$ deep. Net weight, 13 pounds.
ACCESSORIES SUPPLIED: Model 1532 Low Thermal Test Leads: connector and 3 -foot cable with alligator clips.
ACCESSORIES AVAILABLE:
Model 1531 Gripping Probe with 3 foot cable . . . . \$ 35
Model 1532 Test Leads (extra set) . . . . . . . . . \$ 25
Model 1533 Mating Connector for special triax input $\$ 10$ Model 1534 Special Low Thermal Triax Cable. 10-ft. length . . . . . . . . . . . . . . . . . . . . \$ 15
PRICE:
Model 153 Microvolt-Ammeter . . . . . . . . . . . $\$ 550$

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 - NTEUMENTS12415 EUCLIO AVENUE CLEVELAND, DHiO 4410 G PHONE (216) 795.2666

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RANGE: Zero-1eft: 10 microvolts full scale to 1000 volts in 17 overlapping $1 x$ and $3 x$ ranges.

Zero-center: 5 microvolts full scale to 500 volts in 17 overlapping $5 x$ and $15 x$ ranges.

ACCURACY (exclusive of noise and drift):
さ1\% of full scale on 3 -millivolt to 1000 -volt ranges. $\pm 2 \%$ of full scale on 100 -microvolt to 1 -millivolt ranges. $\pm 3 \%$ of full scale on $10-$ microvolt and 30 -microvolt ranges.

ZERO DRIFT: Less than $\pm 2$ microvolts per 24 hours after warm-up with reasonably constant ambient temperature. Long term drift is non-cumulative. Less than 8 microvolts during 2 -hour warm-up.

INPUT NOISE: Less than 0.06 microvolt rms ( 0.3 microvolt peak-to". peak) on most sensitive range with input shorted. Less than 0.1 microvolt rms ( 0.5 microvolt peak-to-peak) on most sensitive range with 1 megohm source.

## INPUT RESISTANCE:

Greater than 200 megohms on 100 microvolt to 1000 volt ranges. Greater than 50 megohms on 30 microvolt range. Greater than 20 megohms on 10 microvolt range.

NOTE: Input resistance of any range may be shunted by a 2 megohm resistor using the Function switch.

LINE FREQUENCY REJECTION: A power line or twice power line frequency which is $40 \mathrm{db}\left(\frac{\mathrm{p}}{\mathrm{c}} \mathrm{p}\right)$ greater than full scale affects reading less than $0.5 \%$.

RISE TIME ( $10 \%$ to $90 \%$ ) Less than 1 second on 100 -microvolt to 1000 volt ranges.
Less than 5 seconds on $10-\mathrm{microvolt}$ and 30 -microvolt ranges.

## AS AN AMMETER:

RANGE: Left zero: $10^{-11}$ ampere full scale to $10^{-1}$ ampere in 21 overlapping $1 x$ and $3 x$ ranges. Center zero: $5 \times 10^{-12}$ ampere full scale to $5 \times 10^{-2}$ ampere in 21 overlapping $5 x$ and $15 x$ ranges.

ACCURACY (exclusive of noise and drift):
$\pm 2 \%$ of full scale on $3 \times 10^{-9}$ ampere to $1 \times 10^{-1}$ ampere ranges. $\pm 3 \%$ of full scale on $1 \times 10^{-10}$ ampere to $1 \times 10^{-9}$ ampere ranges. $\pm 4 \%$ of full scale on $1 \times 10^{-11}$ ampere and $3 \times 10^{-11}$ ampere ranges.

ZERO DRIFT: Less than $\pm 2 \times 10^{-12}$ ampere per 24 hours after warm-up with reasonably constant ambient temperature. Less than $8 \times 10^{-12}$ ampere during 2-hour warm-up.

INPUT NOISE (with input open): Less than $0.1 \times 10^{-12}$ ampere rms ( $0.5 \times 10^{-12}$ ampere peak-to-peak) on most sensitive range.

INPUT RESISTANCE: Varies from one ohm on $10^{-1}$ ampere range to one megohm on $10^{-11}$ ampere range.

RISE TIME ( $10 \%$ to $90 \%$ ) : Less than 2 seconds on $10^{-10}$ ampere to $10^{-1}$ ampere ranges.

## GENERAL:

POLARITY: Meter switch selects left-zero (positive or negative) or center-zero scales. Recorder output polarity is not reversed.

ISOLATION: Circuit ground to chassis ground: Greater than $10^{9}$ ohms shunted by 0.05 microfarad. Circuit ground may be floated up to $\pm 500$ volts dc or peak with respect to chassis ground.

RECORDER OUTPUT:
Output: 0 to $\pm 1$ volt dc (adjustable) at up to one milliampere for full-scale meter deflection on any range. Resistance: Less than 10 ohms with output potentiometer set for maximum output. Voltage Gain: one volt
Voltage setting in volts
Noise: Input noise times voltage gain plus modulation products. Modulation Products: Less than 5\% peak-to-peak of full scale with input shorted.

CONNECTORS: Input: Special TRIAX. Output: Binding posts.
POWER: $105-125$ or $210-250$ volts (switch selected), 50 or $60 \mathrm{cps}, 35$ watts.
DIMENSIONS, WEIGHT: $10-1 / 2^{\prime \prime}$ high x $6-5 / 8^{\prime \prime}$ wide $\times 10^{\prime \prime}$ deep. Net weight, 13 pounds.

ACCESSORIES SUPPLIED: Model 1532 Low Thermal Test Leads: connector and 3 -foot cable with aligator clips.
ACCESSORIES AVAILABLE:
Model 1531 Probe gripping probe with 3 foot cable . . . $\$ 35$
Model 1532 Test Leads (extra set) . . . . . . . . . . . \$25
Model 1533 Mating Connector for special triax input . . $\$ 10$

- Model 1534 Special Low Thermal Triax Cable, $10-\mathrm{ft}$. Length\$ 15

PRICE:

$$
\text { Mode1 } 153 \text { Microvolt-Ammeter . . . . . . . . . . . . . . } \$ 550
$$

## MICROVOLT - AMMETER




## specifications, model 153

AS A VOLTMETER AND NULL DETECTOR
RANGE: 10 microvolts full scale to 1000 volts in 17 overlapping $1 x$ and $3 x$ ranges.


RANGE: 10 11 ampere full scale (exclusive of noise and drift) $\pm 1 \%$ of full scale on 3 -millivolt to 1000 -volt ranges.
$\pm 2 \%$ of full scale on 100 -microvolt to 1 -millivolt ranges.
$\pm 3 \%$ of lull scate on 10 and 30 -microvolt ranges.
ZERO DRIFT: Less than $\pm 2$ microvolts per 24 hours after warm-up with reasonably constant ambient temperature. Less than 8 microvolts during 2 -hour warm-up. Long term drift is noncumulative.
INPUT NOISE. With input sthorted, less than 0.06 microvolt rms $\mathbf{~} \mathbf{0 . 3}$ microvolt peak-to-peak) on most sensitive range.
With 1 -megohm source, less than 0.1 microvolt rms ( 0.5 microvolt peak-to-peak) on most sensitive range
INPUT RESISTANCE
Greater than 200 megohms on 100 -microvolt to 1000 -volt fanges.
Greater than 50 megohms on 30 -microvolt range.
Greater than 20 megohms on 10 -microvolt range.
Note: Input resistance of any range may be shunted by a 2 -megohm resistor by using the Function switth.
LINE FREQUENCY REJECTION. A voltage of power line or twice power line frequency which is 40 dB ( $\frac{\mathrm{p}-\mathrm{p}}{\mathrm{dc}}$ ) greater than full scate affects reading less than $0.5 \%$.
RISE TIME (10'in to $90^{\circ}$ 'r): Less than 1 second on 100 -microvoit to 1000 -volt ranges.
Less than 5 seconds on 10 and 30 -microvolt ranges.
AS AN AMMETER.


ACCURACY (exclusive of noise and drift)
$\pm 2 \%$ of full scale on $3 \times 10^{-6}$ to $10^{-1}$ ampere ranges
$\pm 3 \%$ of full scals on $10^{-10}$ to $10^{-9}$ ampere ranges.
$\pm 4 \%$ of full scale on $10^{-11}$ and $3 \times 10^{+11}$ ampere ranges.
ZERO DRIFT: Less than $\pm 2 \times 10^{-12}$ ampere per 24 hours after warm-up with reasonably constant ambient temperature.
Less than $8 \times 10^{-12}$ ampere during 2 hour warm-up.
INPUT NOISE (with input opent: Less than $0.1 \times 10^{-12}$ ampere rms $\left(0.5 \times 10^{-12}\right.$ ampere p-p) on most sensitive range.
INPUT RESISTANCE One ohm on $10^{\circ}$ ampere range, increasing to one megohm on $10^{-14}$ ampere range.
RISE TIME $10^{\circ} \%$ to $90^{\prime \prime} \%$ : Less than 2 seconds on $10^{\circ 10}$ to $10^{-1}$ ampere ranges.
Less than 5 seconds on $10^{-19}$ and $3 \times 10^{-11}$ ampere ranges.
GENERAL:
POLARITY: Meter switch selects leit-zero \{positive or nagative\} or center-zero scales. Recorder output polarity is not reversed.
ISOLATION Circuit ground to chassis ground: Greater than $10^{\circ}$ ohms shunted by $0.05 \mu \mathrm{~F}$. Circuit ground may be floated up to $\pm 500$ volts de or peak with respect to chassis ground.
HECORDEA OUTPUT
Output: 0 to $\pm 1$ volt (adjustable) at up to 1 milliampers for full-scale meter deflection on any range
Resistance: Less than 10 ohms with output potentiometer set for maximum output.
Voltage Gain: 1 volt/Voltage setting in volts
heh simoise: Input noise times voltage gain plus modulation products.
CONNECTORS: Input: Special Triaxial. Output: Binding posts


ACCESSORIES AVAILABLE
Model 1531 Gripping Probe (soo page 451
50
Model 1532 Low-Thermat Test Leads \{extra)
$\$ 27$

Model 1534 Special Low Thermal triax cable 10 ft . ( 3 m ) length of cable otrly.
Model 4005 Single/Dual Rack Mounting Kit: Adapts one or two
Models 153 for standard $101 / 2 \mathrm{in}$. x 19 in. rack mounting,
40
11 in. ( 280 mm ) depth behind front panel.

## MODEL 148

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## soecifications, model 148

RANGE. 10 nanovolts $\left(10 \times 10^{-9}\right.$ volt) full scale to 100 millivolts on a zero-center meter. 18 overlapping ranges in $1 x$ and $3 x$ steps.
-COURAC!
Meter: $\pm 2 \%$ of full scale on all ranges.
Output Terminals: $\pm 1 \%$ of full scale on alt ranges.
Note: Accuracy specifications exclude noise and drift
ZERO DRIFT Less than 10 nanovolts per 24 hours after 1 hour warm-up with reasonably constant ambient temperature. Long-term drift is non-cumulative.
INPUT NOISE with ioput ihurted, Less than 0.2 nanovolt rms (1 nanovolt peak-to-peak) on most sensitive range.
RESOLUTION Better than 1 nanovolt on the most sensitive range.
INPUT CHARACTERISTICS


Notes: 1 Source resistances higher than the recommended maximum will increase noise and rise time.
2 Ratio of impressed peak-to-peak tine frequency voltage at input to indicated dc voltage.
COMMON MODE REJECTION: 50 or 60 Hz : greater than 160 dB .100 or 120 Hz : greater than 140 dB . (See note 2 above.)
ISOLATION: Circuit ground to chassis ground: Greater than $10^{\circ}$ ohms shunted by 0.05 microfarad. Circuit ground may be floated up to $\pm 400$ volts with respect to chassis ground. On battery operation. may be completely isolated from power line and ground.
RISE TIME 10 ; to 30
30 -nanovolt Range: Less than 2 seconds when source resistance is less than $10 \%$ of maximum; 4 seconds using maximum source resistance. Rise time is about 3 times longer on 10 -nanovolt range. 0.1 -microvolt to 100 -millivalt Ranges: Less than 0.5 second when source resistance is less than $10 \%$ of maximum; 3 seconds using maximum source resistance.
ZERO SUPPRESSION. Up to at least 100 microvolts on the microvolt ranges and up to at least 100 millivolte on the millivolt ranges. Stability is such that 100 times full scale may be suppressed.
RECOFDER OUTPUT
Output: $\pm 1$ volt dc at up to 1 milliampere for full-scale meter deflection.
Resistance: Less than 5 ohms within the amplifier pass band.
Gain: 1 volt / Range setting in volts
Noise: Input noise times gain plus modulation products
Modulation Products: Less than 2\% peak-to-peak of full scale with input shorted.
CONNECTORS Input: Special Keithley Model 1485. Output: Amphenol 80-PC2F.
POWER:
Ling Operation: 105.125 or 210.250 volts (switch selectedt, $60 \mathrm{~Hz}, 16$ watts. $50-\mathrm{Hz}$ models available.
Battery Operation: Rechargeable nickel-cadmium 6-vott battery pack. 14 hours full charge to complete discharge. for maximum battery life, battery operation recommended for no more than 8 consecutive hours before recharge.
DIMENSIONS. WEIGHT $5 \frac{1}{2 \prime \prime}$ high $\times 17 \frac{1}{2^{\prime \prime}}$ wide $\times 10^{\prime \prime}$ deep; net weight, 20 pounds.
ACCESSOAIES SUPPLIEO Model 1481 Low-Thermal Input Cabie with alligator clips; mating output and demodulator test plugs; internally mounted nickel-cadmium battery pack and charging circuit.
ACCESSORIES AVAILABLE. (Many of the following accessories are described on page 45. )
Model 1481 Low.Thermal Input Cable (extra)
Model 1482 Low.Thermal Input Cable
Model 1483 Low-Thermal Connection Kit.
Model 1484 Refill Kit
Model 1485 Female Low-Thermal Input Connector
Model 1486 Male Low-Thermal Input Connector
Model 1488 Low-Thermal Shorting Plug
Model 1489 Replacement Battery Pack
Model 4002 Rack Mounting Kit.
RICES (FO expont pricing sae inside front cover.)
Modef 148 Nanovoitmeter $(60 \mathrm{~Hz}$, Bench).
Model 148 Nanovoltmeter ( 50 Hz )

specifications, model 153
AS A VOLTMETER AND NULL DETECTOR:
RANGE: Zero laft: 10 microvolts full scala to 1000 volts in 17 overlapping $1 x$ and $3 x$ ranges.
Zero-center: 5 microvolts full scale to 500 volts in 17 overlapping $5 x$ and $15 x$ ranges.
ACCURACY (exclusive of noise and drift):
$\pm 1 \%$ of fult scale on 3 -millivolt to 1000 -volt ranges.
$\pm 2 \%$ of full scale on 100 -microvolt to $\{$-millivolt ranges.
$\pm 3 \%$ of full scale on 10 and 30 -microvalt ranges.
ZERO ORIFT: Less than $\pm 2$ microvolts per 24 hours after warm-up with reasonably constant ambient tem. derature. Less than 8 microvolts during 2 hour warm-up. Long term drift is noncumulative.
INPUT NOISE With input shorted, less than 0.06 microvolt ems $\{0.3$ microvolt peak-to-peak $\}$ on most sensitive range.
With 1 -megohm source, less than 0.1 microvolt rms ( 0.5 microvolt peak-to-peak) on most sensitive tange. INPUT RESISTANCE:

Greater than 200 megohms on 100 -microvolt to 1000 -valt ranges.
Greater than 50 megohms on $30-\mathrm{microvolt}$ range.
Greater then 20 megothms on 10 -microvalt range.
Note: Input resistance of any range may be shunted by a 2 -megohm resistor by using the Function switch.
LINE FREQUENCY REJECTION: A voltage of power line or twice power tine frequency which is 40 dB $\left(\frac{p \cdot p}{d c}\right)$ greater than full scale affects reading less than $0.5 \%$.
RISE TIME ( $10 \%$ to $90^{\circ} \%$ ): Less than 1 secand on 100 -microvolt to 1000 -volt ranges.
Less than 5 seconds on 10 and 30 -microvolt ranges.
AS AN AMMETER:
AANGE: Zero-left: $10^{\circ \prime \prime}$ ampere full scale to $10^{-1}$ ampere in 21 overlapping ix and $3 x$ ranges.
Zero-center: $5 \times 10^{-12}$ ampere full scale to $5 \times 10^{-2}$ ampere in 21 overlapping $5 \times$ and $15 \times$ ranges.
ACCUAACY texctusive of nolse and drift:
$\pm 2 \%$ of full scale on $3 \times 10^{-4}$ to $10^{\circ 1}$ ampere renges.
$\pm 3 \%$ of full scais on $10^{-10}$ to $10^{-6}$ ampere ranges.
$\pm 4 \%$ of full scate on $10^{-11}$ and $3 \times 10^{.14}$ ampere ranges.
ZERO DRIFT: Less than $\pm 2 \times 10^{\cdot 43}$ ampere per 24 hours after warm-up with reasonably constant ambient temparature.
Less than $8 \times 10^{-12}$ ampere during 2 hour warm-up.
INPUT NOTSE (with Input open):" Less than $0.1 \times 10^{-3}$ ampere rms $\left\{0.5 \times 10^{-12}\right.$ ampere $\left.p \cdot p\right)$ on most sensitive range.
INPUT RESISTANCE: One ohm on $10^{-9}$ ampere range, increasing to one megohm on $10^{-11}$ ampere range.
RISE TIME $10^{\prime} \%$ to $90^{3}$ ): Less than 2 seconds on $10^{.10}$ to $10^{\circ 1}$ ampere ranges.
Less than 5 seconds on $10^{11}$ and $3 \times 10^{-11}$ ampere ranges.
GENERAL
POLAAITY: Meter switch selects left-zeto (positive or negativel or center-zero scales. Recorder output polarity is not reversed.
ISOLATION: Circuit ground to chassis ground: Greater than $10^{\circ}$ ohms shunted by $0.05 \mu \mathrm{~F}$. Circuit ground may be floated up to $\pm 500$ volts de or peak with respect to chassis ground.
RECORDER OUTPUT
Output: 0 to $\pm 1$ voit (adjustable) at up to 1 milliampere for fuli-scale meter deflection on any range.
Resistance: Less than 10 ohms with output potentiometer set for maximum qutput.
Voltage Gain: I volt/Voltage setting in volts
Noise: Input noise times voltage gain plus modulation products.
Modulation Products: Less than $5 \%$ peak-to-peak of full scate with input shoned.
CONNECTORS: Input: Special Triaxial. Output: Binding posts.
POWER $105 \cdot 125$ or $210-250$ volts (switch selected). 50 or $60 \mathrm{~Hz}, 35$ watts.
OIMENSIONS. WEIGHT: $10 \frac{1}{2}{ }^{\prime \prime}$ high $\times 6^{3} / 4^{\prime \prime}$ wide $\times 10^{\prime \prime}$ deep; net weight, 13 pounds.
ACCESSORIES SUPPLIED: Model 1532 Low-Thermal Test Leads: connector and 3' cable with alligator clips. ACCESSORIES AVAILABLE

Model 1531 Gripping Probe (see page 45)
Model 1532 Low-Thermal Test Leads (extral . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 50.50
Model 1533 Mating Connector: for special tifiaxial input . . . cabie . . . . . . . . . . . . . . . . . . . . 610

PRICE Model 153 Microvolt-Ammeter (Bench) . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $\$ 625$
(For export pricing see inside front cover.)

