



REAR VIEW-SHOWN WITHOUT OUTER CASE

2. WEIGHT-WITHOUT OUTER CASE: 2 LBS., 6 OZ.
WEIGHT-WITH OUTER CASE: 2 LBS., 15 OZ.

1 WHEN RACK MOUNTED, 4151HL MUST BE SUPPORTED AT THIS SURFACE BY CROSS MEMBER OR OTHER SUPPORT STRUCTURE.

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|--|---------------|---------------------------------|---------|------------------------------|--|
| DIYTRAN INSTRUMENTS, INC. | | MASTER ONLY IF IN RED | | CHATSWORTH, CA. | |
| SCALE .66X | REV - | DATE - | ECN - | | |
| DATE 9-27-96 | PART NO. | | | | |
| DRAWN N.C. | CHECKED D.Z. | MAT'L | | | |
| APPROVED 3-16-06 | NEXT ASSEMBLY | | USED ON | | |
| TITLE OUTLINE/INSTALLATION DRAWING, MODEL 4151HL | | | | DWG NO. 127-4151HL | |
| | | | | SHEET 1 OF 1 | |

**SPECIFICATIONS, MODEL 4151HL
TRUE RMS VIBRATION METER**

| SPECIFICATION | VALUE | UNITS |
|--|---|------------|
| "G" RANGES [1] | 50, 10, 5 & 1 | G's |
| VOLTAGE RANGES (external input jack) | 5, 1.0, .50 AND .10 | VOLTS, RMS |
| ACCURACY [2] | ± 2 | %FS |
| FREQUENCY RESPONSE, ±5%, ACCELEROMETER INPUT , F.S. LEVEL | | |
| 50 G RANGE | 1 to 100k | Hz |
| 10 G RANGE | 1 to 30k | Hz |
| 5 G RANGE | 1 to 15k | Hz |
| 1 G RANGE | 1 to 3k | Hz |
| FREQUENCY RESPONSE, ±5% EXTERNAL INPUT , F.S. LEVEL | | |
| 5.0 VOLT RANGE | 1 to 680k | Hz |
| 1.0 VOLT RANGE | 1 to 400k | Hz |
| 0.5 VOLT RANGE | 1 to 150k | Hz |
| 0.1 VOLT RANGE | 1 to 20k | Hz |
| DC OUTPUT VOLTAGE SWING | 0 to 10 | VDC |
| OUTPUT IMPEDANCE of 0-10 VDC OUTPUT CIRCUIT | 50 | OHMS |
| OUTPUT IMPEDANCE, MONITOR JACK | 100 | OHMS |
| INPUT IMPEDANCE, EXTERNAL INPUT | 200 | kOhms |
| PANEL METER | TAUT BAND, MOVING COIL, SCALE LENGTH, 2.41 INCHES | |
| ELECTRICAL JACKS | | |
| SENSOR INPUT | BNC, REAR PANEL | |
| MONITOR | BNC, FRONT PANEL | |
| MONITOR | BNC, REAR PANEL | |
| EXTERNAL INPUT | BNC, REAR PANEL | |
| 0-10 VDC OUTPUT | BNC, REAR PANEL | |
| SPDT ALARM RELAY, CONTACT RATING | 1.0 AMP @ 28 VDC, 0.5 AMP @ 120 VAC | |
| SENSOR SUPPLY CURRENT | 4.0 | mA |
| SENSOR COMPLIANCE VOLTAGE | +20 | VDC |
| SIZE, LESS OUTER CASE (H x W x D) [3] | 5.22 x 3.05 x 8.06 | INCHES |
| SIZE, WITH OUTER CASE (H x W x D) | 5.50 x 3.12 x 8.06 | INCHES |
| WEIGHT LESS OUTER CASE | 2 Lb, 6 Oz | |
| WEIGHT WITH OUTER CASE | 2 Lb, 15 Oz | |

[1] "G" ranges cited are valid only when used with any 100 mV/g LIVM (IEPE) accelerometer. Multiply ranges by 10 when using a 10 mV/g LIVM (IEPE) accelerometer.

[2] Meter accuracy only. Accelerometer accuracy will affect system accuracy.

[3] Mounts in standard 19-inch wide equipment rack such as Dytran's Model 4200 rack. Up to 5 units may be mounted in a rack.