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TECHNOLOGY GROUP

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Find the *AstroNova / Astro-Med Dash 18X* at our website: ***Click HERE***

AstroNova™
Test & Measurement

## Dash 18X Specifications

| | |
|---|---|
| **Color Display** | |
| Type | Active matrix color LCD (TFT) with 17" viewing area |
| Resolution | 1280 x 1024 |
| Touch | Full screen, resistive |
| Functions | User interface with touch-based icons and menus; Real-time waveform monitoring; Review previous waveform records while recording; Overlay numeric values in Engineering Units |
| **Interface** | |
| Ethernet | 10/100BaseT |
| DVD | Supports archive of data to CD-R, CD-RW, DVD-R, DVD+R & DVD+RW |
| VGA | For displaying data on an external monitor |
| USB 1.1 | For external peripherals and file export |
| **Analog Input Boards** | |
| Maximum Boards | 3 |
| Maximum Waveforms | 18 |
| A/D | 14 bit |
| **Standard Event Inputs** | |
| Number of Inputs | 8 |
| Connector | D-shell (9-pin) |
| Input Type | TTL with pull-up (0 to 5VDC) |
| Response | Detects if duration is greater than 0.01 msec |
| **Real-time Signal Processing** | |
| Filters | Low Pass Stops: 1 Hz to 10,000 Hz; High Pass Starts: 0.1 Hz to |

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| | |
|---|---|
| | 100 Hz; Notch: 50 or 60 Hz center |
| RMS | Time constant selectable from 0.02 to 2 seconds |
| Frequency to Voltage | 5 Hz to 20 kHz, +/- 0.05% of measurement + 0.1 Hz |
| Cross-Channel | Sum, Difference, Ratio, Product (Power) |
| **Real-time Signal Testing** | |
| Basic | All active signals monitored simultaneously |
| Test Types | Tests include window, slope/level, slew and event pattern |
| Outputs | Result available for alarms, trigger, abort and external TTL |
| **Data Capture** | |
| Recording Method | Internal 73 Gbyte hard drive |
| Max. Rate | 100,000 samples/second per channel (all channels) |
| Min. Rate | 1 sample/minute |
| Dual Rate | Second slower rate available when no trigger is used |
| Total Capacity | 16 billion samples |
| Max. Record | 2 billion samples |
| Header | Information on units, range, sample rates, etc. saved with data |
| Events | All standard event inputs captured with waveforms |
| Trigger Point Lock | Amounts of pre- and post-trigger is user adjustable |
| Auto Re-arm | Allows automatic stacking of captures |
| Auto Playback | Yes |
| External Sample Rate | TTL sample clock up to 40,000 Hz |
| **Signal Conditioner Specifications (General)** | |
| Channels per Module | 6 |



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| | |
|---|---|
| Isolation | 250 Vrms (iso-common to chassis and other iso-commons) |
| Bandwidth | 12 kHz (-3dB) |
| Input Coupling | DC |
| Zero Suppression | Yes |
| User Engineering Units | Yes |
| Calibration | Semi-automated to external reference |
| **Single Ended Voltage Input** | |
| Input Type | Isolated, single-ended |
| Connector | Guarded banana jack |
| Max. rated input | +/- 250 Vrms |
| Max. transient input | +/- 400 V |
| Specified ranges | 40 to 400 VFS; 4 to 40 VFS; 0.4 to 4VFS |
| Accuracy (25°C) | +/- 0.5% of attenuator |
| Min. Input Impedance | 1 Megohm |
| **Differential Voltage Measurements (use for bridge measurements)** | |
| Input Type | Isolated, differential |
| Connector | Screw terminal header |
| Absolute Max. Input | +/- 40 V differential |
| Measuring Ranges | 200 to 1600 mVFS; 50 to 500 mVFS; 5 to 50 mVFS |
| Accuracy (25°C) | +/- 0.5% of attenuator |
| Min. Input Impedance | 200 kOhm |
| CMR at 60 Hz | > 60dB |
| Auto Balance | Yes, limited to maximum span |



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| | |
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| **Thermocouple Measurements** | |
| Input Type | Isolated, differential with screw terminal header connector |
| Absolute Max. Input | +/- 40 V |
| Specified Range | Type J: 0 to 760 °C<br>Type K: 0 to 1370 °C<br>Type T: -160 to 400 °C<br>Type E: -100 to 870 °C<br>Type N: 0 to 1300 °C |
| Accuracy (25°C) | 0.5% of measurement + 2 °C |
| Bandwidth | 10 Hz (-3dB) |
| Intrinsic Noise | 0.5 °C (1 Hz filter) |
| Linearization | NIST polynomial |
| Units | °C or °F |
| **Excitation** | |
| Connector | Screw terminal header |
| Excitation | Isolated 10V @ 20 mA |
| Adjustable | 0.1 to 10 V |
| **Frequency Measurements** | |
| Method | Zero-crossing, channels 1, 7 and 13 only |
| Signal Amplitude | Peak-to-peak minimum is 20% of attenuator |
| Hysteresis | Yes |
| **Removable Drive** | |
| Type | DVD+R |
| Format | MSDOS® format |
| Function | Setup files, software upgrades, data transfer/archive |
| **Power** | |



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| | |
|---|---|
| Input Voltage Range | 100 to 250 VAC |
| Frequency Range | 47 Hz to 63 Hz |
| Power Consumption | 300 W maximum |
| **Physical** | |
| Enclosure | Aluminum |
| Dimensions | 16.1" L x 15.1" W x 6.4" H |
| Weight | 29 lbs. |
| **Compliance** | |
| Safety | EN 61010-1 |
| EMC | FCC Class A, EN 61326 |
| Power Harmonics | IEC1000-3-2 |
| **Environmental** | |
| Operating Temp | 5 to 40 °C (40 to 105°F) |
| Non-operating Temperature | -20 to 60 °C (-4 to 140 °F) |
| Operating Humidity | 10% to 90%, non condensing |
| **Optional Chart Recorder - Model SCR-18** | |
| Chart Width | 11" |
| Max. Chart Speed | 50 mm/sec |
| **Optional DC Input Power - Model PIM-18** | |
| Input Range | 9-18 VDC |
| Input Power | 200 W max |
| Fuse | User replaceable 25 A |
| **Optional DC Input Power - Model PIM-18A** | |



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| | |
|---|---|
| Input Range | 20-32 VDC |
| Input Power | 240 W max |
| Fuse | User replaceable 10 A |

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