

## Dash 18XR-HS Specifications

Color Display		
Туре	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	
Removable media	Removable cartridges for all non-volatile media	
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: 10 Hz to 10,000 Hz; High Pass Starts: 0.1 Hz to 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		
Filters	Low Pass Stops: 10 Hz to 10,000 Hz; High Pass Starts: 0.1 Hz to 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)	
Data Capture		
Recording Method	Internal 73 Gbyte hard drive (removable)	
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	

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, differential	
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, single-ended	
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	

Thermocouple Measurements	Thermocouple Measurements		
Input Type	Isolated, differential with screw terminal header connector		
Absolute Max. Input	+/- 40 V		
Specified Range	Type J: 0 to 760 °C Type K: 0 to 1370 °C Type T: -160 to 400 °C Type E: -100 to 870 °C 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		
Power			
Input Voltage Range	102 to 264VAC		
Frequency Range	47 Hz to 63 Hz		
Power Consumption	300 W maximum		
Physical			

Enclosure	Aluminum	
Dimensions	15.75"H x 19"W x 17.64"D	
Weight	29 lbs.	
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-18R		
Chart Width	11"	
Max. Chart Speed	50 mm/sec	
Dimensions	7"H x 19"W x 11"D	

Specifications are subject to change. Registered trademarks belong to their respective companies.