



Specifications

GEN SERIES BASIC 200k XT ISO DIGITIZER

Basic 200k XT iso Digitizer

Analog Input Selection

Number of Channels	8
Input Type	Unbalanced differential ⁽¹⁾ , isolated
Input Connectors	Fully insulated BNC
Input Ranges	± 2.0 V, ± 4.0 V, ± 10 V, ± 20 V, ± 40 V, ± 100 V plus variable gain in 1000 steps (0.1 %)
Offset (zero position)	1000 steps (0.1 %)
Input Coupling	DC, GND
Input Impedance	1 MΩ (± 1 %) // 55 pF (± 10 %)
Maximum Static Error (MSE)	0.1 % full scale
Noise	0.02 % full scale
Analog Bandwidth	50 kHz (-3 dB) *Overall bandwidth is always limited by digital filters
CMRR	> 72 dB @ 100 Hz
Overload Protection	250
Number of Slots	1, incl. signal conditioners

Isolation

Channel-to-chassis	250 V
Channel-to-channel	250 V
Non-destructive	250 V to chassis (earth)

Acquisition

Sample Rate	From 200 kS/s to 0.1 S/s
ADC Resolution	16 bit (0.0015 %)
Anti-Alias Filters	Bypass, Time-, Frequency- domain optimized
Time Domain	7-pole Bessel 20 kHz, optimal step response
Frequency Domain	7-pole Butterworth 20 kHz, extended frequency response
Digital Decimation Filters	IIR or FIR
Time Domain	6-pole Bessel style IIR, sample rate divided by 10, 20, 40, 100
Frequency Domain	12-pole FIR at sample rate divided by 4, 10, 20, 40

Transient Memory

Standard 64 MS per card, shared by enabled channels.

8 channels 8 MS per channel

Triggering

Each channel has individual dual-level trigger detection with selectable hysteresis, modes and qualifiers.

Pre- and post-trigger 0 to full memory length
Trigger Rate Up to 1000 triggers per second, zero

re-arm time

Resolution 16 bit for each level (= 0.0015 %)

STATSTREAM® Real-time Analysis

Each channel includes real-time extraction of Max, Min, Mean, Peak-to-peak, and RMS values.

Acquisition Modes

Sweeps	Triggered acquisition to RAM without sample rate limitations; for single or repetitive transients or intermittent phenomena
Continuous	Direct storage to PC or mainframe hard disc without file size limitations; triggered or untriggered; for long duration recorder type applications with up to 1 MS/s rate per channel; (maximum aggregate rate pending from mainframe configuration and PC)
Dual	Combination of Sweeps and Continuous; recorder type streaming to hard disc with simultaneously triggered sweeps in RAM

Ordering Information

Basic 200k iso XT	1-GN814-2 (ex 845-087100)
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(1) An unbalanced differential input can be used to do differential, off ground, isolated measurements like a "real" differential input. The difference is the implementation using an unbalanced isolated circuitry rather than using a balanced differential one.

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