

Specifications

GEN SERIES BASIC 1M XT ISO DIGITIZER

Basic 1M XT iso Digitizer

Analog Input Selection

Number of Channels 8

Input Type Unbalanced differential(1).

isolated

Input Connectors Fully insulated BNC **Input Ranges**

 \pm 2.0 V, \pm 4.0 V, \pm 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 o.1 % full scale

(MSE)

Noise 0.02 % full scale **Analog Bandwidth** 500 kHz (-3 dB) > 72 dB @ 100 Hz CMRR

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

From 1 MS/s to 0.1 S/s Sample Rate **ADC** Resolution 16 bit (0.0015 %) **Anti-Alias Filters**

Bypass, Time-, Frequency-domain

optimized

Time Domain

7-pole Bessel 220 kHz, optimal step response

Frequency Domain 7-pole Butterworth

370 kHz, extended frequency response

Digital Decimation Filters Off, Frequency domain

optimized

Frequency Domain 12-pole FIR at

sample rate divided by 4, 10, 20, 40

Transient Memory

Standard 256 MS per card, shared by enabled channels.

8 channels 32 MS per channel

Triggering

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

Pre- and post-trigger o 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

Triggered acquisition to Sweeps

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

Basic₁M iso XT

1-GN813-2 (ex 845-081100)



(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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HBM Genesis HighSpeed products were previously sold under the Nicolet brand. The Nicolet brand is owned by Thermo Fisher Scientific Inc. Corporation. www.hbm.com/highspeed