

Data Sheet 5.51-5/4

Electrical Measuring Channels up to 250 MS/s, Type HiRES Analog Measuring Card

Application

The multiple channel HiRES Analog Measuring Card is designed for measurements of fast transients where no galvanic separation between signal source and measuring device is necessary. This avoids the necessity of battery use for these applications. The HiRES Analog Measuring Card is built into a HiRES Base device.

Main features

- Internal precision voltage sources for automatic gain adjustment of all measuring ranges
- Input voltage range and filters switched by software
- Coupling DC / AC

Table 1: Main Parameters

Type (HiRES Analog Measuring Card ...)	2x250-14	2x125-14	2x60-14	2x25-14
Input impedance	1 MΩ / 25 pF	1 MΩ / 50 pF		
Sampling rate	250 MS/s	125 MS/s	62.5 MS/s	25 MS/s
Analog bandwidth (-3 dB)	100 MHz	50 MHz	30 MHz	12.5 MHz
Anti-Aliasing filter	70 MHz	25 MHz	15 MHz	6 MHz
User selectable low pass filters	1.0 MHz, 200 kHz			
Analog input channels per module	2 (single-ended)			
Connector type	SMA			
Amplitude resolution	14 bit			
Full scale input voltage range	±50 mV - ±10 V			
Overvoltage protection	±300 V			
DC measuring uncertainty related to full scale	±0.2 % (range ±100 mV - ±10 V) ±0.5 % (range ±50 mV)			