

Multi-functional Remote 50A Current Measurement- and Control Module ME-7 “ME-Axon”

Date: 02-05-2010 10:43 AM CET

Category: [IT, New Media & Software](#)

Press release from: [Meilhaus Electronic GmbH](#)



Precise Current and Voltage Measurement via USB or Ethernet

Meilhaus Electronic presents their latest development in measurement and control modules – the ME-7 also known as the ME-Axon. Depending on the model the device is connected to a USB 2.0 or a 10/100Base-T Ethernet/LAN interface of a PC. With its rugged metal housing it can be used as table-top device or integrated into a 19" rack. The ME-Axon's main feature is the ability to measure currents at 7 different measurement ranges from 250 μ A up to a maximum of 50A without interruptions when switching between the ranges. The additional analogue inputs of the module have a rating of up to ± 10 V. Signal conditioning modules can be connected to acquire data from thermocouples, RTDs, bridges, differential currents or voltages. The max. A/D- conversion rate is 500 kHz with a resolution of 16 bit. For control applications the device has digital TTL I/O channels, 4 analogue outputs with a voltage output of ± 10 V (also at 500 kHz) and 3 counters.

An ME-4670 I/O measurement card is at the heart of the system. Therefore the ME-Axon is also supported under the ME-iDS software driver platform for Windows and Linux. On this basis the developer can choose amongst many different software environments to design his individual application. Standard programming languages such as C/C++/C#, VisualBasic, Delphi or Python are supported in addition to LabVIEW or Agilent VEE Pro. The driver has also been integrated into specialized software packages by various Meilhaus Electronic's software cooperation partners. With the TestManager CE by MCD Elektronik (www.mcd-elektronik.de) even complex test routines can be programmed without having to program in a cryptic programming language. The module can also be integrated into real-time development environments via SCALE-RT by COSATEQ (www.cosateq.de) or used as sophisticated data acquisition unit with TurboLab (www.turbolab.de).

The ME-Axon is the fusion of 3 individual Meilhaus Electronic products: The ME-4670 multi-I/O board, the USB- or LAN-bridge ME-Synapse, as well as the ME-SIG32 as signal conditioning unit. Therefore the ME-Axon can be easily and quickly adapted to meet customer specific requirements.

Situated in Puchheim near Munich, Meilhaus Electronic is one of the leading European designers, producers and distributors for PC-based measurement, data acquisition and interface technology.

Since 1977 Meilhaus Electronic has been offering standard as well as customer-specific solutions for professional measurement, data acquisition and control applications. Their product range includes PC boards (PCI, PXI/CompactPCI, PCI-Express, Ethernet/LAN, USB) and modules for data acquisition, control and data transmission/communication for labs and industry, "classic" and USB/mobile measurement instruments as well as software for PC DAQ under Windows XP, 2000 and Linux.

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