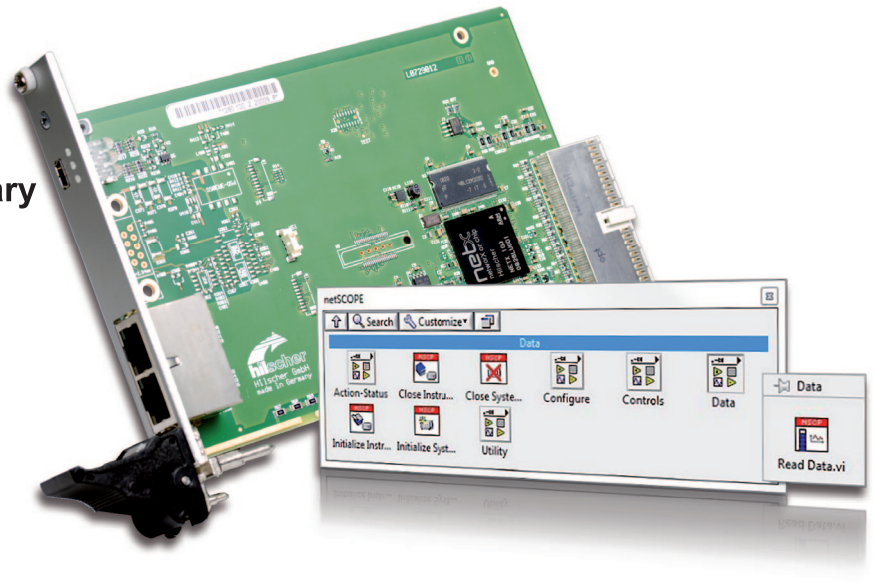


# netSCOPE for LabVIEW

Intelligent Process Data Acquisition for LabVIEW

- **Data acquisition directly from the network**
- **No modification of PLC necessary**
- **Process documentation**
- **Visualization**
- **Diagnosis**



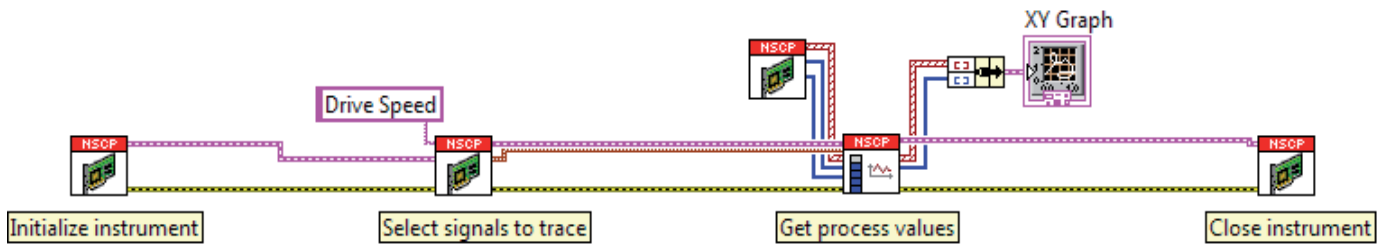
Process data acquisition is used in many application segments. Especially for condition monitoring and process documentation the precise capture of the process value trend is a key task. National Instruments LabVIEW provides a mighty and comprehensive solution for these applications. Using the netSCOPE data acquisition card enables an easy capture of measurement values for further processing within LabVIEW.

Measurement values are captured directly from the transmitted process data frames. This allows also the cost-effective extension of existing plants because there is no need in adapting the PLC software.

Implementing the measurement application with a netSCOPE device is thereby fast and easy to realize. The device is plugged into the automation network as a passive participant. In LabVIEW only a few steps are needed to acquire process data in a format commonly used in such applications.

Generally, all transported data is recorded from the network, completed with an exact time-stamp representing the time of acquisition. Data is sampled communication-cycle accurate. Therefore a complete and gap-less process data image with history is always available.

# Technical Data / Product Overview



Process values acquisition is programmed in LabVIEW in a few steps.

First, the netSCOPE instrument is initialized, after that the signals which shall be acquired are configured. Now, captured process values can be read out and processed within the LabVIEW program.

Once the measurement process is finished, the instrument is closed.

netSCOPE for LabVIEW		
Technical Details	History depth and signal count	Unlimited, only restricted by PC memory
	Signal types	Input and output process values
	Operating System	Windows XP; Windows Vista, Windows 7; Windows 8
	LabVIEW version	2013
	Supported Systems	EtherCAT
	Automated symbol import	EtherCAT: ENI file
	Ethernet channel	2x RJ45, passive TAP, Ethernet delay < 1 µs Additional external TAP with Zero-delay possible
	Time stamp resolution	10 ns

Technical Details	Article	System Interface	Operating Voltage	Operating Temperature	Dimensions (LxWxH)
	NSCP-C100-RE\50	PCI, 33 MHz, DPM, IO-DMA	3,3 V / typ. 650 mA	-20 ... +55° C	120,0 x 86,0 x 18,5 mm
	NSCP-C100-RE\50E	PCI Express, One-Lane-Port	3,3 V / typ. 800 mA	0 ... +55° C	120,0 x 73,2 x 18,5 mm
	NSCP-C100-RE\70E	Low Profile PCI Express, One-Lane Port	3,3 V / typ. 650 mA	0 ... +70° C	162,2 x 100,0 x 20,0 mm
	NSCP-C100-RE\80	Compact PCI, 33 MHz, DPM, IO-DMA	3,3 V / typ. 800 mA	0 ... +65° C	119,0 x 69,0 x 18,5 mm
	NSCP-C100-RE\90E	Mini PCI Express, One-Lane-Port	3,3 V / typ. 650 mA	0 ... +55° C	51,0 x 30,2 x 11,0 mm

*Note: All technical data is preliminary and may be changed without further notice.*

Overview	Article	Article Number	Article Description
	NSCP-C100-RE\50	7330.100	PCI Data Acquisition Card for Real-Time Ethernet
	NSCP-C100-RE\50E	7330.101	PCI Express Data Acquisition Card for Real-Time Ethernet
	NSCP-C100-RE\70E	7330.102	Low Profile PCI Express Data Acquisition Card for Real-Time Ethernet
	NSCP-C100-RE\80	7330.103	Compact PCI Data Acquisition Card for Real-Time Ethernet
	NSCP-C100-RE\90E	7330.105	Mini PCI Express Data Acquisition Card for Real-Time Ethernet

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