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Resource Name control (like the **DAQ** Channel Name control)

You can specify the full resource name or the VISA Alias







VISA Terminol • <u>Resource</u> —Instrument, Serial Parallel Port	Ogy I Port, or
• <u>Session</u> —Connection to a Res	ource
Instrument Descriptor Reso	urce
location	
	GPIB0::1::INSTR
• Format: Interface	GPIB0::4::INSTR
Type::Address::INSTR	GPIB0::10::INSTR
	ASRL1::INSTR
• Examples:	ASRL2::INSTR
	ASRL3::INSTR
	ASRL10::INSTR

Instrument Descriptor Syntax

- · Resource Name contains interface info
- VISA Aliases also work

Interface	Resource Name Grammar
Serial	ASRL[board][::INSTR]
GPIB	GPIB[board]::primary address[::INSTR]
VXI	VXI[board]:: <i>VXI logical address</i> [::INSTR]
GPIB-VXI	GPIB-VXI[board][::GPIB-VXI primary address]::VXI logical address[::INSTR]



















Summary

- LabVIEW can communicate with any instrument that connects to your computer if you know the interface type
- Use the Measurement & Automation Explorer (MAX) to detect, configure, and test your GPIB interface and instruments
- An instrument driver eliminates the need for your to have detailed knowledge of the specific strings used by an instrument
- Instrument Library more than 650 instruments supported
- Instrument driver VIs share a common hierarchy and come with an example to help you get started
- VISA a standard protocol for using multiple types of I/O and instrument driver development
- · Serial library contains functions for serial communication
- You need to know the format of the returned data string in order to convert it to the correct values