nVision Quick Start Guide

Crystal Control Software Installation





nVision Introduction

Thank you for choosing the nVision Reference Pressure Recorder from Crystal Engineering Corporation. Your nVision is a combination of leading edge technology and rugged industrial design. nVision, coupled with CrystalControl Software, allows you to make nVision exactly what you need it to be.

CrystalControl Configuration Software

CrystalControl enables you to custom configure your nVision to tailor it suit your needs. With only a mini USB B cable and a computer running Microsoft Windows* the CrystalControl Configuration Software allows you to customize your nVision to suit your specific needs and applications.

Installation

CrystalControl is distributed as a self-extracting Setup application. Insert the enclosed CD and launch CrystalControlSetup.exe. Follow the on-screen prompts for installation.

Software is also available from the Crystal Engineering website: www.crystalengineering.net/downloads.

Microsoft Windows XP [SP3], Windows Vista [SP2] or Windows 7 Enterprise. Microsoft, Windows, XP, Vista or 7 is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.



CrystalControl DataViewer Screen







We hope your nVision meets your expectations, and we're interested in any comments or suggestions you may have. You can send us a note at sales@crystalengineering.net.

Many features in this and our other products are a direct result of your comments!

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Button Functions

Depending on your particular configuration your nVision may physically look different than the model shown, and all descriptions are intended for general representation only. Some settings can be enabled and disabled using the CrystalControl software, and may not be visible on your model. For an in-depth look at all functionality and options for the nVision, please refer to the nVision Operation Manual located on your nVision CD (also available at www.crystalengineering.net/downloads).

Display Options

nVision has several screen options depending upon how the recorder is populated with modules. A summary of the available screen types is shown below. You may view the data in single or dual mode (upper and lower modules simultaneously). Additionally, you may view the data numerically or graphically to suit your needs.

This icon represents a component that can be Software modified with CrystalControl software







Upper Module Bay

In the graphical modes the nVision navipad

enables you to control how you view your data.

Data Scroll

Using the **4** & **b** keys allows you to navigate to specific points along your run, while displaying reading and time information.

Graph Zoom

Using the 🔺 & 🔻 keys allows you to zoom in and out of your recorded run to suit your needs.

Test safely with live readings annunciated regardless of cursor location or zoom level

Graphical: Dual Module Screen (Both Sensors)

Data Scroll



nVision Reference Recorder shown.

All instructions on this spread are also applicable to nVision Lab Reference

| Module Interfaces | | | | |
|--|--|--|--|--|
| Pressure Modules (PM) | Crystal Pressure Fittings (CPF) System: Medium Pressure Female (MPF) 1/4" medium pressure tube system with 7/16-20 threads | | | |
| Temperature Module (RTD100) | IP67 rated M8 connector (P/N: 3953) with terminal block for 2-, 3-, 4-wire support | | | |
| Current, Voltage & Switch Test Module (MA20) | 2mm banana jacks for sheathed plugs. 12.7mm (0.5") spacing | | | |
| Barometric Reference (BARO) | 5.8mm (.23")OD sensor located in Power Module Bay, Calibrate using 3/16" ID tubing. | | | |

| Power Icon Key - nVision Reference Recorder | | | | | | | |
|---|----------------|-----------------|-----|-----|-----|------|--|
| lcon | Ŵ | Ê | Ô | Û | Û | ß | |
| Description External Po (USB) | External Power | 100% | 75% | 50% | 25% | 0%** | |
| | (USB) | Power Remaining | | | | | |
| **Replace Batteries or connect to USB Power | | | | | | | |

| Power Icon Key - nVision Lab Reference | | | | | |
|---|--------------------------------|-----------------|--|--|--|
| lcon | ¥ | Ŷ | | | |
| Description | External Power (AC Adapter) | USB Connection* | | | |
| *USB Connection is for data transfer only | | | | | |





Graphical: Upper Module Screen



Graphical: Lower Module Screen



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