GE
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Features

- Windows®-based software
- Compatible with digital pressure controllers and portable field calibrators
- Maintenance scheduling utility
- Calibration certificates including customization
- Compatible with third party calibrators via FCINTF drivers
- Stores instrument details, procedures and results

Intecal is a new calibration management software platform developed to maintain and control a calibration environment to the highest standards of metrology. Intecal software has been adapted for both the calibration laboratory and the process industry, especially where digital pressure calibrators and/or portable calibrators are used to calibrate and validate electrical, pressure and temperature instrumentation.

Free download of fully functioning 30 day trial version at www.gesensing.com.

Intecal

Calibration Software for Automating Test and Calibration

Intecal is a Druck and Ruska product. Druck and Ruska have joined other GE high-technology sensing businesses under a new name—GE Sensing.

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Intecal is an easy to use calibration management software application for generating calibration procedures, automating calibrations when used in combination with laboratory standards, controllers and portable calibrators, scheduling calibrations and documenting results. It has been developed to help meet demands for increasing efficiency and automating the test and calibration process.

GE offers the most comprehensive range of electrical, pressure and temperature test and calibration equipment and when used with Intecal, significant cost savings can be realized by:

- Maximizing calibration/maintenance productivity
- Fully automating the calibration process (Intecal Advanced)
- Optimizing product quality
- Minimizing production costs
- Reducing the burden of ISO 9000, etc.
- Reducing documentation time and errors

Intecal Software System

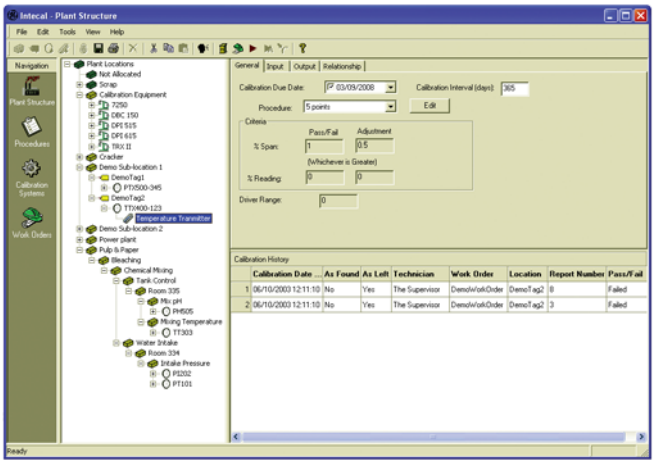
Intecal provides all the features for efficient calibration management:

- Simple to use
- Supports tag numbers and asset numbers
- Compatible with both GE digital pressure controllers and portable calibrators, in additon to third party calibrators using FCINTF
- Manual data entry
- Time-based calibration scheduling
- Historical records
- Export calibration reports to .pdf, .doc and .xls
- Multi-languages available
- Comprehensive help
- Compatible with select digital mulitmeters and mulitplexers to automatically acquire readings from the device under test

Intecal is available in:
English, Chinese, Dutch, French, German, Italian, Polish, Russian and Spanish. (for the latest languages please contact GE Sensing)

Database Architecture

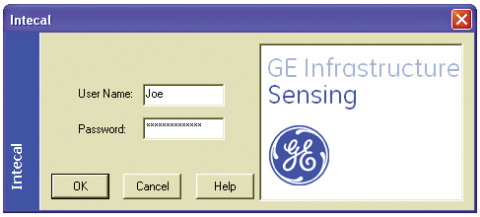
Intecal uses the popular Explorer tree structure to view nested locations. This philosophy is simple to learn and enables plant areas and process instrumentation to be organized and managed effectively.



Intecal main screen

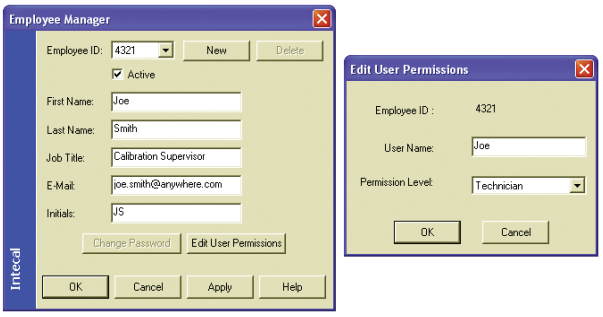
System Security

To prevent unauthorized editing of data, Intecal uses a four tier password-protected security system. Database management is exclusive to the supervisor and administrator while the technician user is permitted to create work orders and transfer data between PC and field calibrators.



Employee Manager

Authorized employees are issued with a user ID, which embodies their unique e-signature used to invoke calibration procedures and save result files. The employee name is automatically populated on the calibration report.



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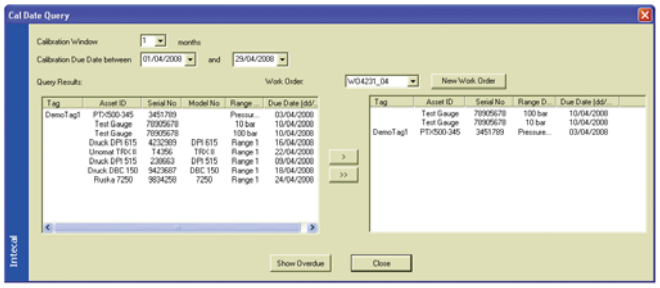
Instrument Records

The 'function' pane is the direct portal to the device database containing the following:

- Manufacturer, model number and serial number of instrument, the input and output range data and calibration pass/fail criteria
- Generic test procedures and work orders to assist resource planning
- Archived calibration history and reports, including as found/as left data complete with graphs

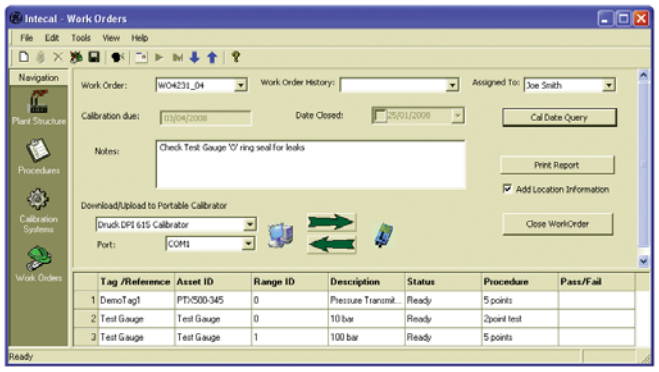
Time-Based Schedule

A time-based search engine quickly identifies devices due or overdue for calibration. This simple but powerful resource management tool helps plan routine calibration and outage maintenance.



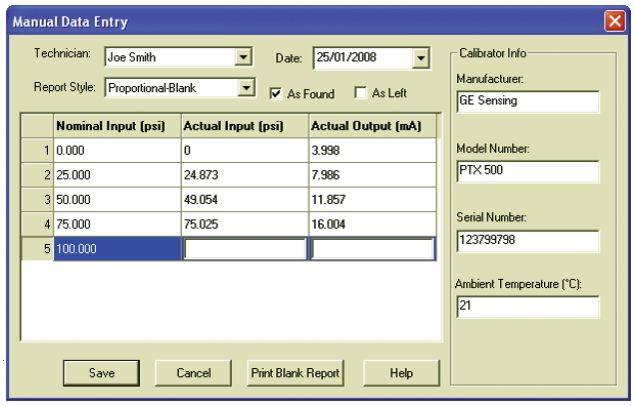
Field Calibration

Portable documenting calibrators can be programmed with object lists and test procedures. In the field these routines are executed automatically for electrical and temperature calibrations or semi-automatically where manual setting is required, for example, pressure generation. The device error is indicated with the PASS/FAIL status and both As Found and As Left calibrations are supported. This automation promotes uniformity and eliminates human errors.



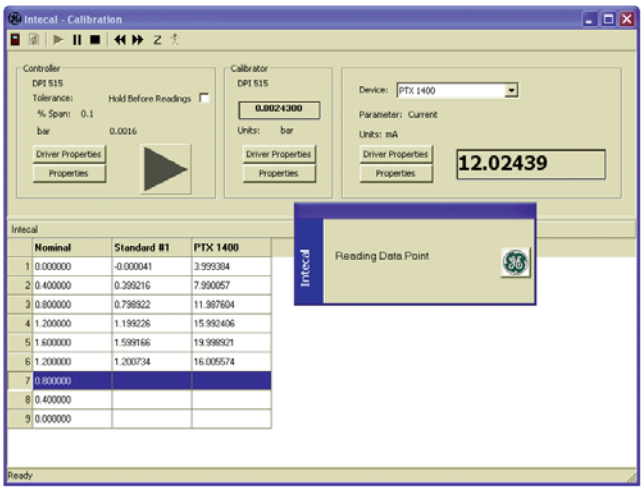
Manual Data Entry

Calibrators and test equipment without serial communications, for example deadweight testers, are supported with a manual data entry facility. Calibration results are entered as the test proceeds, or alternatively, results recorded from field calibrators can be entered later. This feature provides total compatibility with existing equipment and allows the full benefits of automated calibration to be realized at a later date when older equipment is replaced by documenting calibrators.



Laboratory calibration (Intecal Advanced only)

Calibration systems can be configured to meet specific test and accuracy requirements with the flexibility to have up to three instruments working together. This includes an instrument for setting/controlling the input parameter, a standard for measuring the input and a standard for measuring the output. These systems can be fully automated or allow manual control and data entry for non-compatible standards or devices under test.



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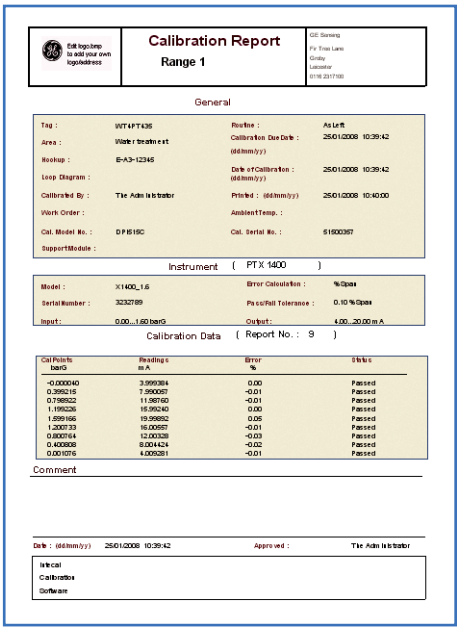
Calibration Reports

The calibration certificates can be printed or exported in a clear logical format that complies with the requirements of quality approvals such as ISO 9000. As found and as left results are detailed in numerical and graphical form including pass/fail status, and important information about the device calibrated, the calibrator used and the technician.



Calibration Report
Range 1

General

Tag :	WT4PT436	Routine :	As Left
Area :	Water treatment	Calibration Due Date : (dd/mm/yy)	25/01/2008 10:39:42
Hookup :	E-A3-12345	Date of Calibration : (dd/mm/yy)	25/01/2008 10:39:42
Loop Diagram :			
Calibrated By :	The Administrator	Printed : (dd/mm/yy)	25/01/2008 10:40:00
Work Order :		Ambient Temp. :	
Cal. Model No. :	DPI615C	Cal. Serial No. :	51600367
Support Module :			

Instrument (PTX 1400)

Model :	X1400_1.6	Error Calculation :	%Span
Serial Number :	3232789	Pass/Fail Tolerance :	0.10 %Span
Input:	0.00...1.60 barG	Output:	4.00...20.00 mA

Calibration Data (Report No. : 9)

Cal Points barG	Readings mA	Error %	Status
-0.000040	3.999384	0.00	Passed
0.399215	7.990057	-0.01	Passed
0.798522	11.98760	-0.01	Passed
1.199226	16.99240	0.00	Passed
1.599166	19.99892	0.05	Passed
1.200133	16.00057	-0.01	Passed
0.800764	12.00328	-0.03	Passed
0.400808	8.004424	-0.02	Passed
0.001076	4.006281	-0.01	Passed

Comment

Date : (dd/mm/yy) 25/01/2008 10:39:42 Approved : The Administrator

Intecal
Calibration
Software

Calibration Standards

Our instruments are calibrated with precision equipment traceable to international standards.

Intecal System Requirements

- OS Windows, 2000, NT4 and XP
- CPU Intel 486, 66 MHz or greater (Pentium recommended)
- Memory 128 MB RAM or greater (512 MB recommended)
- Hard drive space: 50 MB for installation.
- CD-ROM drive or Internet access

Ordering Information

Please state one of the following:

Part No. 781-016-B for Intecal Basic

Compatible with:
- DPI 325 high pressure pneumatic calibrator
- DPI 335 high pressure hydraulic calibrator
- DPI 605 precision pressure calibrator
- DPI 615 pressure calibrator
- MCX II precision multifunction calibrator
- TRX II multifunction calibrator

Part No. 781-016-A for Intecal Advanced

Compatible with:
- As Intecal Basic for field calibration plus the following laboratory based instruments
- 7010, 7215, 7250, 7350, 7610, 7615 pressure controllers
- 7200 series pressure indicators
- DBC series dry block temperature calibrators
- DPI 150 pressure indicator
- DPI 515 pressure controller (supports SCM)

Intecal Advanced can also work on-line with the DPI 104, DPI 605, DPI 610/615 series and the DPI 320/330 series to automatically take readings. This could be to calibrate the devices or to use them as standards in a calibration system.

920-172C

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