Intecal - W

Calibration Management Software

Druck
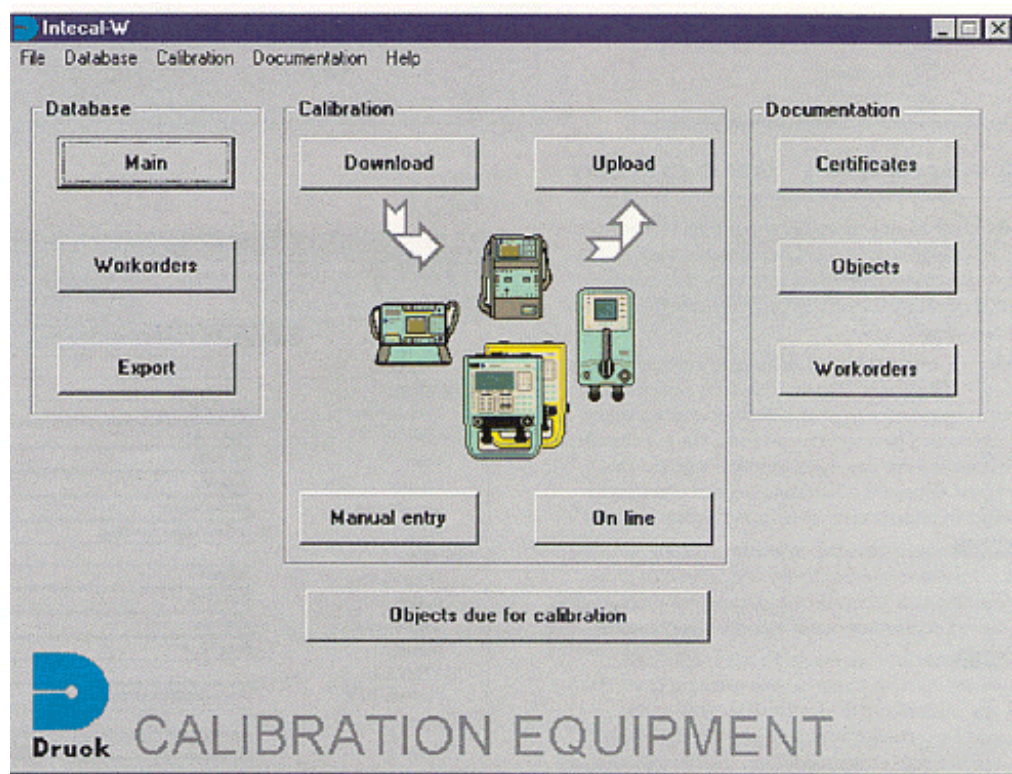
INTECAL-W

- Supports Druck Portable Calibrators

- Supports Druck Workshop Calibrators

- Supports any calibrator by manual data entry

- Reduces calibration cost, eliminates errors

- Four level security, protected calibration data

- PCMCIA card and RS232 data transfer

- Quick to install, easy to learn and use
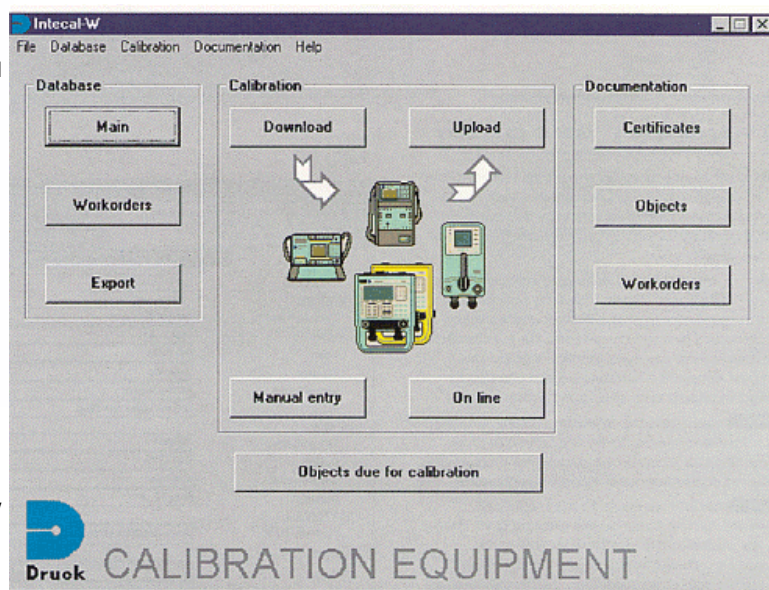
INTECAL-W - 11/98

Intecal-W

Calibration Management Software

Intecal-W is an easy to use calibration management software for generating calibration procedures, scheduling work and documenting results. It is designed for efficient calibration and management of process and industrial instrumentation by technicians, contractors, manufacturers and service companies. Druck offer the most comprehensive range of pressure and temperature calibration equipment and Intecal-w supports these products to give Druck users a significant edge in the global market by:

• Increasing calibration/maintenance productivity.
• Optimizing production quality.
• Minimizing production costs.
• Reducing the burden of ISO 9000 and similar standards.
• Reducing documentation time and errors.

System security

Calibration software is only as good as its protection against unauthorized entry and accidental change. Intecal-W features a four level security system for assigning user rights from fully protected read only to total system manipulation. The log-on passwords are also used to authorize calibrations both in the workshop and in the field.
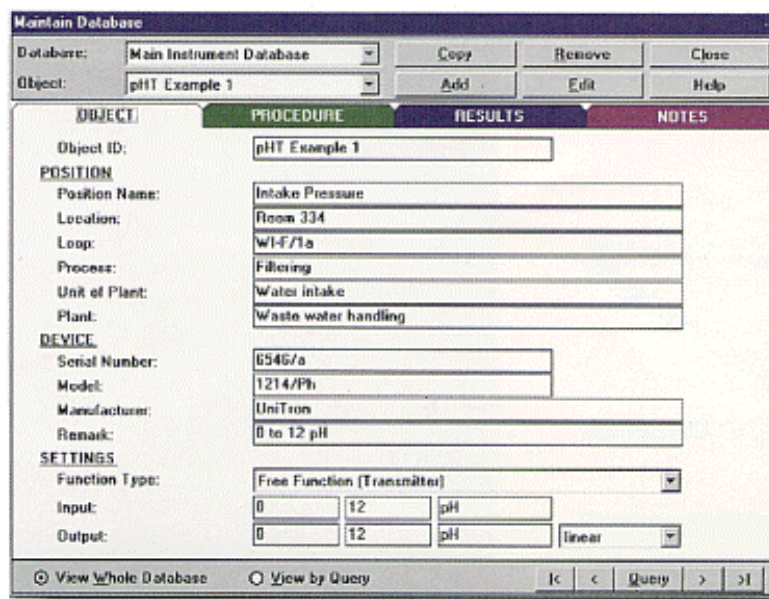
INSTRUMENT RECORDS

For each instrument in the database 'index cards' fully define the object, its calibration results and text notes. This ergonomically designed card system is instantly familiar, being representative of conventional card indexes, and as such is very easy to use.

The **OBJECT** card defines an instrument from two distinct perspectives 'position' and 'device'. This suits both installed instruments as found on a process plant, but also workshop returns as maintained by a service company. For any object the input and output settings are quickly configured from pre-defined function types. Free functions are also provided for non-specified instruments such as $_pH$ and humidity sensors.

The **PROCEDURE** card details the calibration strategy including the period, calibration points, accuracy and calibrators to be used. A large text area is also provided for written instructions and these can be copied from other Windows applications.

The **RESULTS** card shows the As Found and As left calibration results, both in numerical and graphical form. For traceability the calibration date and serial number of the calibrator used are recorded along with the identity of the technician and the authorizing supervisor. These identities are linked to the security passwords and cannot be tampered with.
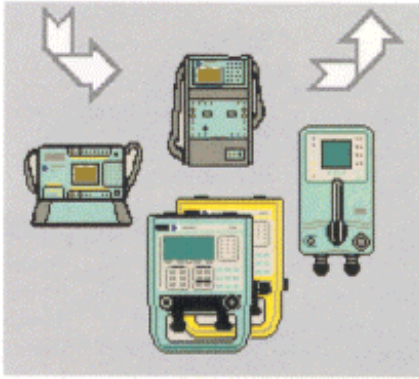
The **NOTES** card is a large text field for recording information pertinent to the history and service record of the object.
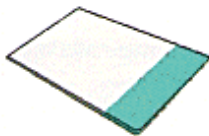
FIELD CALIBRATION

Download	Upload

Druck portable documenting calibrators are programmed with object lists and calibration procedures. In the field these routines are executed fully automatically for temperature and electrical calibrations or semi-automatically for pressure calibrations where manual setting is required. In support of Druck's range of portable documenting calibrators Intecal-W offers two methods for data transfer.

PCMCIA card
Data exchange via PCMCIA cards Eliminates time consuming docking with the PC. The MCX and TRX-11 calibrators need never leave the field as workorders and results can be transferred to and from the PCMCIA card independently of the calibrator.
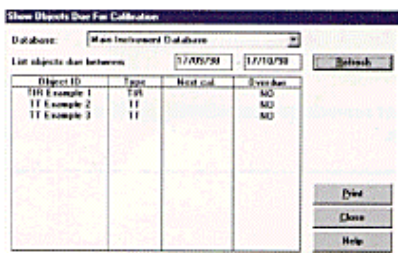
RS 232
Data exchange via the standard computer serial interface is supported for the full range of field portable documenting calibrators.

AUTOMATIC WORKSHOP CALIBRATION

On line

Druck workshop calibrators installed with an RS 232 serial interface are supported through on-line data transfer. This bi-directional communication allows hands free calibration according to pre-defined procedures. The software shows the results in 'real time' with the calculated errors and at the end of each calibration the pass/fail status is reported.

MANUAL CALIBRATION

Manual entry

Calibrators without a serial communication link, 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 calibrations, using for example a DPI 601, can be entered later. This features provides total compatibility with existing equipment and allows the full benefits of automatic calibration to be realized at a later date as older calibration equipment is replaced by documenting calibrators.

TIME BASED SCHEDULE

A time based search facility reports objects due or overdue for calibration. This simple query screen is a powerful resource management tool.

Druck

Druck

THE INTECAL-W SOFTWARE SYSTEM

Intecal-W provides all the features for efficient calibration management without the complexity of similar software systems. An intuitive user interface and automatic control of a wide range of Druck calibrators means ease of use without compromised features.
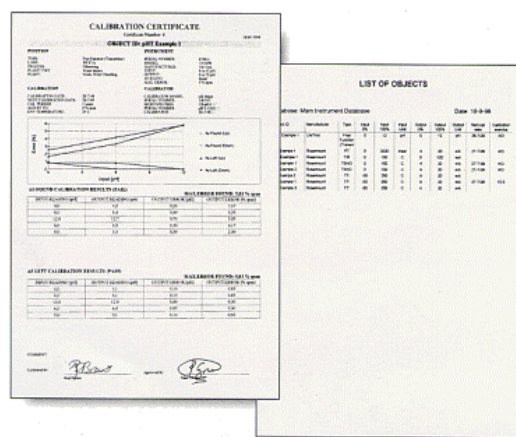
Standard features

- Simple to use, no icons
- Supports Druck calibrators
- Field calibration
- On-Line calibration
- Manual data entry
- Four security levels
- On-line help
- Multiple Access databases
- Database restoration tool
- Supports devices and positions

- User defined instrument types
- Copy and edit functions
- Time base calibration schedules
- User defined queries
- Batch workorders
- Batch document printing
- Calibration history data
- Protected calibration results
- Data export
- PCMCIA card and RS 232
- Multi-lingual

DOCUMENTATION

Print

Intecal-W provides individual or batch printing of documents including object lists, workorders, objects to be calibrated and calibration certificates. The calibration certificates are printed in a clear logical format which complies with the requirements of quality approvals such as ISO 9000. As Left and As Found results are detailed in numerical and graphical form, including the Pass/Fail status and information about the object calibrated, the calibrator used, the technician and the strategy.

Intecal-W Compatible Calibrators

Druck

PORTABLE CALIBRATORS

DPI 605 High Precision Pressure Calibrator
- -1 to 20 bar pneumatic pressure source
- Ranges -1 to 700 bar
- 0.025% Rdg accuracy
- RS 232 interface

MCX High Precision Multifunction Calibrator
- T/C's, RTD'S, mA, mV/V, ohms, frequency
- Pressure -1 to 350 bar
- Switch testing
- PCMCIA card and RS 232
- Smart HART®communicator

DPI 610 Portable Pressure Calibrator
- -1 to 20 bar pneumatic source
- 0 to 400 bar hydraulic source
- Ranges -1 to 700 bar
- 0.025% FS accuracy
- RS 232 interface

TRX-II Portable Multifunction Calibrator
- T/C's, RTD's, mA, mV/V, ohms, frequency
- Pressure -1 to 700 bar
- Switch testing
- PCMCIA card and RS 232

WORKSHOP CALIBRATORS

DPI 510 Pressure Controller/Calibrator
- Controlled pneumatic source
- Ranges from -1 to 210 bar
- Measure mA, mV,V
- 0.025% Rdg accuracy
- RS 232 interface

DPI 520 Pressure Controller
- Controlled pneumatic source
- Ranges from -1 to 70 bar
- 0.025% Rdg accuracy
- RS 232 interface

DPI 145 Precision Pressure Indicator
- Six channels, ranges -1 to 700 bar
- 0.015% Rdg accuracy absolute
- 0.025% Rdg accuracy gauge
- RS 232 interface

DPI 605R Precision Pressure Calibrator
- Dual channel, ranges -1 to 700 bar
- Measure mA, mV,V and switch state
- 0.025% Rdg accuracy
- RS 232 interface

Deadweight Testers
- 0.05 mbar to 5000 bar
- Gas, water or oil operation
- Accuracies from 0.0015% rdg
- Gauge, absolute or differential pressure

LOW COST HAND HELD TOOLS

DPI 603	Pressure Calibrator, ranges up to 20 bar
DPI 705	Pressure Indicator, ranges up to 700 bar
UPS	Reads and sources mA
MVX	Reads and sources mA, mV, V
VAX-II	Reads and sources mA, mV, V, frequency and pulses
TRX	Reads and sources mA, mV, V, T/C's, RTD's and ohms

INTRINSICALLY SAFE PORTABLE CALIBRATORS

Druck manufacture a wide range of intrinsically safe portable calibrators for field calibration and maintenance of pressure, temperature and electrical instrumentation installed in hazardous areas.

SYSTEM REQUIREMENTS

To run Intecal-W you will require the following:
An IBM compatible PC with a 486 DX2 50 Mhz (Pentium recommended).
Windows 95 or Windows NT 4.0.
16Mb of RAM.
256 colour VGA display adaptor.
15Mb of available hard disk space.
A 3½" floppy disk drive and CD drive.
Serial connection port (RS 232):
A mouse or similar pointing device.
If using the MCX or TRX-II a PCMCIA card slot is recommended.
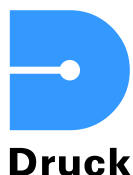
ORDERING INFORMATION

Please state the following:
1) **INTEW** for Intecal-W compatible with all Druck portable and workshop calibrators. A PCMCIA card with software release key is included for use with one MCX or TRX-II. RS 232 cables are supplied for use with the portable calibrators (DPI 605 RS 232 cable supplied with the instrument).
Note: To use with multiple MCX/TRX-II contact Druck.

2) **ICDPI** for Intecal-W as supplied for INTEW but without the PCMCIA card or RS 232 cables for use with the MCX and TRX-II.
Note: To upgrade to INTEW contact Druck.

Continuing development sometimes necessitates specification changes without notice.

Druck

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