## USER LEVELS & SECURITY

Transmille software incorporates a password protected login system (password use is optional), allowing users to be set up with specific permissions (Administrator, Engineer and operator levels). This provides controlled access to the different types of information - for example, office based staff may require access to information relating to paperwork, but not be able to access calibration procedures, results data and other important technical data.

## MULTI LANGUAGE SUPPORT

ProCal and ProCal-Track are multi language capable, with a simple translation database to convert from English to almost any other language. Many language translations have already been created and are available on the software CD. Support for creation of new languages is also included on the software CD.

## NETWORKING OVERVIEW

Fully networkable with a 'floating' licence system to allow flexible configuration. Connect to a basic peer-to-peer or server based network to provide centralised data storage. Each licence is activated using a USB software key (dongle), allowing multiple computers to use Transmille software.


## SYSTEM REQUIREMENTS OVERVIEW

Operating System : Microsoft Windows 98 / 2000 / NT / XP or Higher
Minimum PC Specifications : 1GHz Processor • 128Mb RAM • 800x600 Screen Resolution : Minimum Install 200MB
Each software licence requires one free USB / Parallel port for software key (dongle)
Database Engine : Microsoft Access 2000 Compatible

ProCal supports the National Instruments range of GPIB Interface cards (sold separately)
Label printing requires DYMO LabelWriter printer (sold separately)
Requires appropriate drivers for GPIB Interface, Sound & Video features

## ProCal :: ORDERING INFORMATION

| | |
|---|---|
| PC-SU | : ProCal Single User / 1st Network Licence |
| PC-N | : ProCal Additional User (for use with single user licence) |
| PC-SITE | : ProCal Site Licence |
| PC-SUS | : ProCal Single User Support |
| PC-NS | : ProCal Network Support |

## ProCal-Track :: ORDERING INFORMATION

| | |
|---|---|
| PCT-SU | : ProCal-Track Single User / 1st Network Licence |
| PCT-N | : ProCal-Track Additional User (for use with single user licence) |
| PCT-SITE | : ProCal-Track Site Licence |
| PCT-SUS | : ProCal-Track Single User Support |
| PCT-NS | : ProCal-Track Network Support |

## DISTRIBUTOR INFORMATION

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UNIT 4 SELECT BUSINESS CENTRE
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STAPLEHURST, KENT. TN12 0QW.
UNITED KINGDOM

TEL : +44 (0) 1580 890700
FAX : +44 (0) 1580 890711
EMAIL : sales@transmille.com • www.transmille.com



V2.00

# PROCAL

**MULTI DISCIPLINE CALIBRATION SOFTWARE**

# PROCAL-TRACK

**LABORATORY MANAGEMENT SOFTWARE**

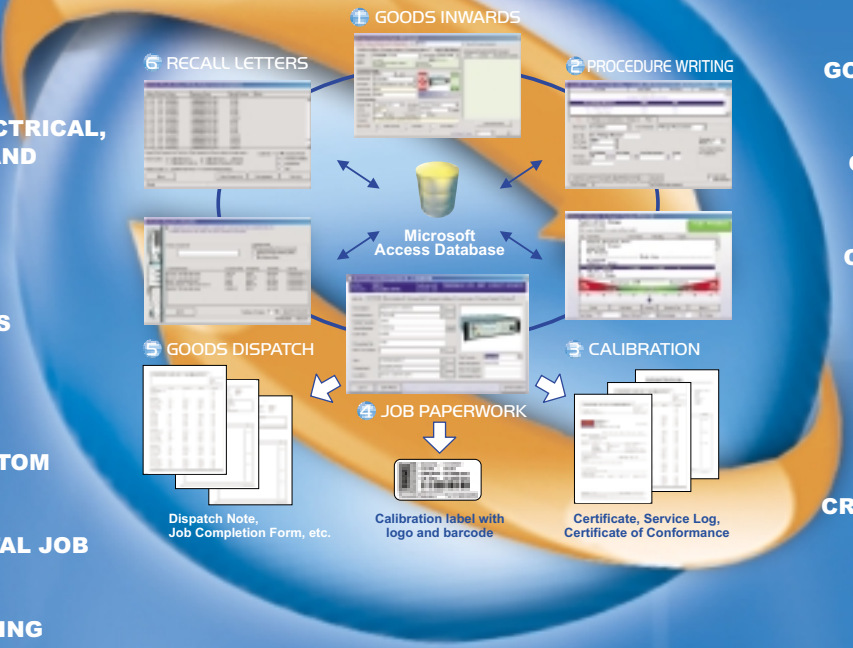
TRANSMILLE
SOLUTIONS IN CALIBRATION

## THE COST EFFECTIVE SOLUTION

### FROM STAND-ALONE SETUPS TO MULTI USER NETWORK INSTALLATIONS

# PROCAL

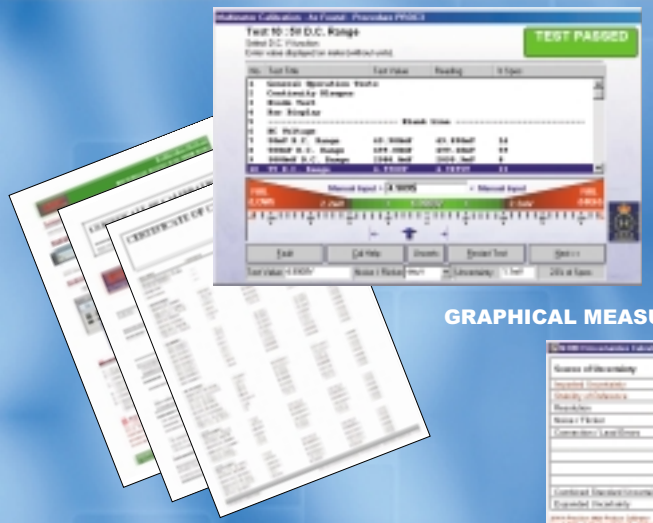
- NETWORKABLE SYSTEM - CAN BE USED THROUGHOUT THE LABORATORY & OFFICE
- MULTI-DISCIPLINE :: CAN BE USED FOR ELECTRICAL, PRESSURE, TEMPERATURE, DIMENSIONAL AND MORE...
- M3003 / GUM COMPLIANT UNCERTAINTY CALCULATIONS
- CONTROLS A WIDE RANGE OF INSTRUMENTS USING GPIB / RS232 INTERFACE
- MULTI LANGUAGE
- CRYSTAL REPORTS SUPPORT - CREATE CUSTOM CERTIFICATES & OTHER REPORT DESIGNS
- INTEGRATES WITH PROCAL-TRACK FOR TOTAL JOB CONTROL
- FAST PROCEDURE CREATION & TESTING USING BUILT-IN WIZARDS




# PROCAL-*TRACK*

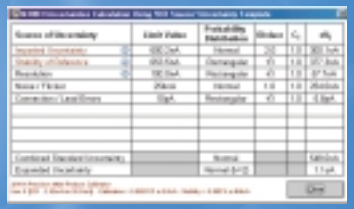
- GOODS INWARD & ACCESSORIES MANAGEMENT (WITH BARCODE SCANNING)
- CENTRALISED PAPERWORK PROCESSING AND DESPATCH (WITH BARCODE SCANNING)
- COMPREHENSIVE FORMS, REPORTS & LABELS
- RECALL LETTER SYSTEM
- SUB CONTRACT WORK HANDLING
- DIGITAL PHOTO DISPLAY
- CRYSTAL REPORTS SUPPORT - CREATE CUSTOM CERTIFICATES & OTHER REPORT DESIGNS
- MULTI LANGUAGE

## THE COMPLETE CALIBRATION SOLUTION




LABEL PRINTING & BARCODE SUPPORT

GRAPHICAL MEASUREMENT SCREENS



ACCREDITED (ISO17025) / TRACEABLE / CONFORMANCE / SAFETY CERTIFICATES, TEST REPORTS WITH COLOUR LOGOs

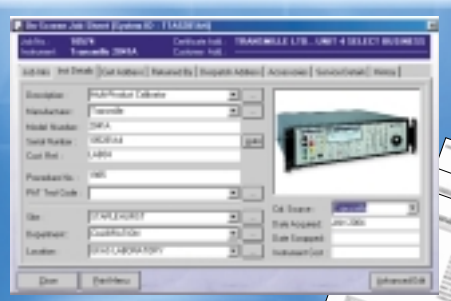
FLEXIBLE UNCERTAINTY CALCULATION METHODS

INTEGRATE FOR THE COMPLETE

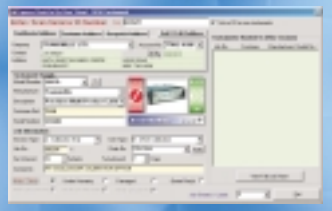
CALIBRATION & MANAGEMENT SOLUTION

## TOTAL LABORATORY MANAGEMENT

LABEL PRINTING & BARCODE SUPPORT



COMPREHENSIVE VIRTUAL JOB SHEET



FAST , EFFICIENT BOOKING IN

SERVICE REPORTS, DESPATCH NOTES, RECALL LETTERS, QUOTES & OTHER JOB PAPERWORK

# PROCAL

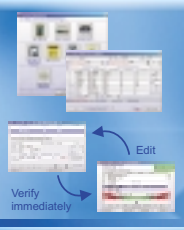
## TRUE UNIVERSAL CALIBRATION SOFTWARE

ProCal provides a cost effective and easy to use solution for calibration from a single workstation through to networked multi disciplined laboratories. ProCal supports a database of equipment used in the laboratory, including all makes and types of calibrators, DMMs, standard resistors, capacitors, inductors, dead weight testers, crimp testers, temperature probes etc, in fact any standard or item of equipment used for calibration in a laboratory. ProCal integrates with ProCal-Track for total job control using a central Microsoft Access database.
Translatable into any language.

Developed over many years in a working laboratory environment, ProCal is the best solution for today's laboratory professionals worldwide.

Learn more about ProCal in use worldwide at www.transmille.com

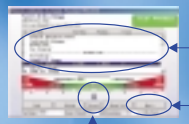
## QUICKLY CREATE & TEST CALIBRATION PROCEDURES




This is essential as every working laboratory knows there is always a large proportion of previously unseen equipment requiring new procedures. Wizards in ProEdit allow very fast creation of procedures based on generic type of instrument, e.g. DMM, Oscilloscope, RCD, Loop testers, pressure gauge etc.

Instrument accuracy is automatically calculated from entering the specification which also saves time and reduces errors. One of the most important features is the ability to run a procedure using ProCal in one window and with ProEdit running in another window it is possible to correct errors in a procedure as it is run, the calibration of the instrument does not have to be aborted due to a mistake in the procedure.

## INTUITIVE TO USE :: CLEAR GRAPHICAL INTERFACE




Each test result is graphically represented as a measurement bar scaled to the specification of the instrument under test.
Using easy 'traffic light' style indication, test pass/marginal/failed states are displayed. Measurement uncertainty is also clearly displayed either side of the measurement point. Test sequences are shown in a list box and indicate the test point reached in a procedure - any test can be run instantly by clicking a test line in this list box. A calibration can be halted and saved with status 'Awaiting customer response', 'As Found Done, Awaiting Adjustment' etc. Calibrations can then be recalled for completion at a later time.
The calibration sequence is presented in 'wizard' style screen with 'Next >' and '< Back' buttons for easy to use operation.

## COMPREHENSIVE TEST :: PICTURE :: VIDEO PROMPTS

Text, pictures or even video file prompts can all be easily incorporated within a ProCal procedure to help guide a technician through a calibration.
At the click of a button the engineer can record any information relevant to calibrating the instrument under test using ProCal's built in *technical help file* system. This can then be used as a lookup reference when calibrating this type of instrument in the future.

ProCal has the ability to use built-in generic connection diagrams for specific tests (Eg. Connection to a multimeter for DC Voltage measurement).

## BUILT IN UNCERTAINTY CALCULATIONS TO M3003 / GUM

ProCal can automatically calculate uncertainties as required by M3003 / GUM Standards. This is calculated for each test as the measurement is performed and saved along side the result. The uncertainty calculation is clearly displayed in a 'spreadsheet style' view showing the individual uncertainty contributions, including noise/flicker. The contributions in this template can be defined by the user for a specific measurement parameter including imported uncertainty and stability figures for the reference instrument used.

Alternatively, ProCal allows a library of uncertainty statements to be stored and linked to calibration procedures.

## FAST, EFFICIENT CALIBRATION


## CLOSED LOOP CALIBRATION & ATE CONTROL

Use the powerful easy to use command language in ProCal to control and read back from any GPIB / RS232 device. Closed loop calibration procedures can easily be written with easy to understand one line control commands (including UUT address configuration) - no programming required!
ProCal can offer a solution for custom ATE control systems where scanners, switches & PSUs etc. need to be remotely configured.

## JOB PRIORITY & STATUS CONTROL :: MANAGING WORKFLOW

With ProCal, calibration work can be prioritised based on turn-around time. This enables efficient laboratory workflow to be acheived, with any equipment reaching overdue status being displayed in red to warn the laboratory engineer. Status codes can be used to quickly set instructions to informative states such as 'awaiting customer authorisation' or 'go-ahead given', distributing information across the system for other users to see.

## POWERFUL DOCUMENTING AND REPORTING CAPABILITIES

Print certificates and reports directly from ProCal which conform to ISO standards or design your own custom certificates & reports using the powerful reporting functions in Crystal Reports. Using the information held in the ProCal database, many types of report can be produced including repair estimates, fault reports, reverse traceability etc. Several example reports and certificate styles are supplied with ProCal and users can customise these or create new reports.
ProCal supports five certificate types, each with its own number counter : Accredited • Standard • Conformance • Electrical Safety and Test Report plus your own custom styles. This flexibility provides universal support for any required use in the calibration laboratory... and beyond. ProCal also allows customisable calibration labels with company logos to be printed.

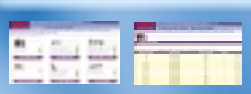
## CALIBRATION PRICING DATABASE BUILT IN

Pricing of calibration / repair work and parts used can easily be achieved using ProCal. By linking procedures to a price list the calibration is automatically priced when a procedure is used. Spare parts, repair and labour costs can be entered directly into the virtual job sheet at any time. This important function stores all the information required to produce an invoice, including customer discounts, reducing pricing mistakes whilst increasing efficiency.

## DATA IMPORT / EXPORT FOR ON-SITE CALIBRATION

To allow on-site work to be carried out and easy imported back into the main database, an optional software package is available. This allows jobs to be exported at the beginning of the day, taken to an on-site location for results completion and then re-imported into the main database on return.

## ONLINE PROCEDURE LIBRARY :: PROCEDURES AT THE CLICK OF A MOUSE



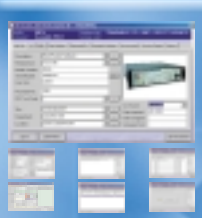
A library of calibration procedures is available at www.transmille.com.
This is a subscriber service based on a credits system - a user can purchase credits and download procedures which are rated with a number of credits based on its complexity.

# PROCAL-TRACK

## TOTAL JOB CONTROL FROM GOODS IN TO DESPATCH

ProCal-Track provides the tools for management of instruments from goods-in through to despatch, including external calibration work, laboratory assets and stock/demo instruments etc. Users can open a virtual job card from any PC to view current or historical data. Use of digital photos can be implemented to aid user recognition. Instrument recall letters can also be issued on a regular basis.

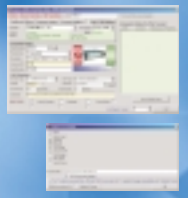
## VIRTUAL JOB CARD :: DYNAMIC JOB TRACKING



Most paperwork systems are based around job cards / work sheets. With ProCal-Track, Transmille have retained this familiar format and created electronic, centrally stored records. As work is booked in, a job record is created to keep all details of the job including information such as accessories received and customer comments.

The great advantage of the computerised job record is that it is centrally available to anyone, anywhere at any time. This information is stored for the lifetime of the instrument, and is available even after the instrument has been returned to the customer with a detailed history of the instrument recorded.

## GOODS INWARDS & ACCESSORIES MANAGEMENT



### WITH BARCODE RECOGNITION

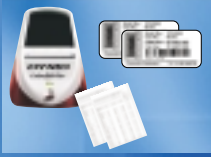
Using our experience in running a successful calibration laboratory, Transmille has refined the booking in process to make it as fast and easy to use as possible. On screen aids such as drop down lists, automatic instrument recognition (a lookup of model number to find an instrument's manufacturer and description) and selectable printout of job sheet or label are available. Each accessory can be recorded and barcode labelled, ensuring the items the instrument was received with are returned - never lose a customers accessories again!

## EASY TO USE :: DESIGNED FOR THE OFFICE & THE LAB

Office staff can view information quickly and easily, allowing customer calls to be efficiently answered, whilst in the laboratory engineers can gain access to detailed service histories including parts used, engineer reports and technical help information.

The dynamic job tracking means the moment an engineer completes a job the office can instantly see the status of the instrument. This centralised information access maximises the efficiency of all staff, office and laboratory alike.

## COMPREHENSIVE FORMS, REPORTS & LABELS



ProCal-Track provides the facility to print out a range of forms, reports and labels (with barcodes) using the DYMO range of thermal printers. A user can query the database for information about instruments for a specific customer and print out these details, re-issue certificates or service logs and print system ID or serial number labels.

Support for viewing / printing Crystal Reports is built in as standard. Using the Crystal Reports designer other reports can be custom designed and used in ProCal-Track.

## QUALITY SYSTEM INTEGRATION (ISO 17025)

FULFILS
ISO 17025
ISO 9000
REQUIREMENTS

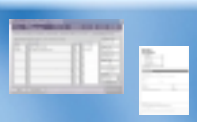
The computerised record keeping of ProCal-Track and the advanced reporting functions, including many specific features (for example the 'quarantine' status, reverse traceability report etc.) fulfill the requirements of quality systems such as ISO 17025, whilst reducing the workload of a manual system.

## COMPREHENSIVE INSTRUMENT MANAGEMENT


## CALIBRATION & REPAIR SUB CONTRACT HANDLING

Sub contract work can be recorded in the database, and monitored using the reports to view, for example, outstanding sub contacted instruments - this allows an overview of sub contracted work to be maintained. Instruments issued to sub contractors can then be processed using the normal goods inwards function when received and the database will recognise and update the system.

## FAULT & ESTIMATE REPORTING



The parts used, labour and recalibration costs stored in ProCal-Track can be used to automatically create reports to inform customers of faults and give cost estimates. These reports can be directly emailed or faxed directly from the engineers workstation, saving office staff time and ensuring correct information is quickly passed to the customer. These reports can be customised using Crystal Reports.

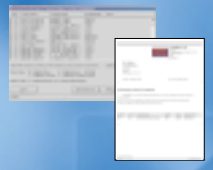
## DESPATCH SYSTEM WITH ACCESSORY CHECKING

The dedicated despatch function provides the facility to enforce barcode scanning of accessories to ensure instruments are returned with the accessories they were received with. Instruments can be despatched individually or as a group as required, with automatic printing of despatch notes (designed for use with document pouches) and optional address labels.

## INVOICING & JOB PRICING

The pricing information stored in ProCal-Track together with the customer discount can be used to create an invoice report detailing the total costs (calibration, parts & labour) for one or more instruments. This printed report can also be used to enter cost information into any accounting package.

## INSTRUMENT CALIBRATION RECALL SYSTEM



The instrument recall system incorporated into ProCal-Track uses system status codes to manage and issue calibration recall notices. These notices can be issued in the form of specific pre-formatted letters or managed electronically (using third party methods to fax or email). The recall system has built in intelligence to process calibration work, ignoring test reports and repair events in an instrument's service records.

Instruments can be marked as 'do not recall' as required, with recall processing collated as required (e.g. Collated by user to send recalls to specific engineers).

## CERTIFICATES ON THE WEB (OPTIONAL)

Upload PDF versions of certificates to your own online web service, giving access to instrument recall calibration information with this optional add-on package.