

485 Automated Transducer and Microphone Calibration

Simple and easy-to-use PC application for automated calibration of vibration transducers and measurement microphones. User operation is via a Microsoft® Windows® based interface with an inbuilt SQL database for storage of calibration results, certificate generation and reporting.

Description

Automated calibration of accelerometer, velocity and displacement type vibration sensors is a requirement for many industries, including automotive, aerospace, power generation and vibration sensor manufacturers. These industries require a reliable and easy-to-use transducer calibration system, with repeatable results.

The Beran 485 Application is a PC application that acts as a user front end for the Beran TransCal™ family of Automated Transducer Calibration Systems. Allowing automated repeatable calibrations to be set-up, run and re-run quickly and efficiently. Enabling the user to perform automated calibrations, certificate generation, and calibration result analysis within a single easy-to-use PC application.

The Beran TransCal 485 Workstation Application provides complete control of the Beran TransCal Calibrator range (Beran 475 and 455) and TransCal Calibrator Amplifiers (Beran 801A, 801B and 801M).

TransCal™ Database

Test results are stored within the TransCal Database, which allows users to recall test results, compare parameters, re-issue certificates and identify calibration trends.

Searches can be performed on the TransCal Database for one or more (combined) fields, such as operator, manufacturer, serial number, date, model number, pass/fail criteria, batch number or customer name.

Historic test configurations can be recalled, enabling the device to be calibrated using the same procedures. Reports can be created to call back devices for calibration - for example, devices due next month.



- Easy-to-use PC graphical interface.
- Integral calibration SQL database.
- User-configured calibration certificate to in-house corporate standards.
- Traceable calibration results to industry standards.
- Powerful report generator for calibration data analysis.
- User-entered Pass/Fail lines.
- Multi-level password control.
- Export calibration results into a third party application.

User Reports

User reports can be created to determine when devices are due for calibration, e.g. next month.

User-Customised Certificates

With the inbuilt certificate generator, the Beran 485 Workstation Application enables creation of custom calibration certificates for internal or external use, in line with your company standards. These can contain any field, tabulated graph, or graph data from the TransCal database - no more exporting results and data manipulation! Pictures such as your company logo can be added to the certificate.

Profile Storage

All user-entered and calibration routines are stored into the SQL database to minimise data re-entry, and to allow traceability of all equipment used during calibration.

User Access Control

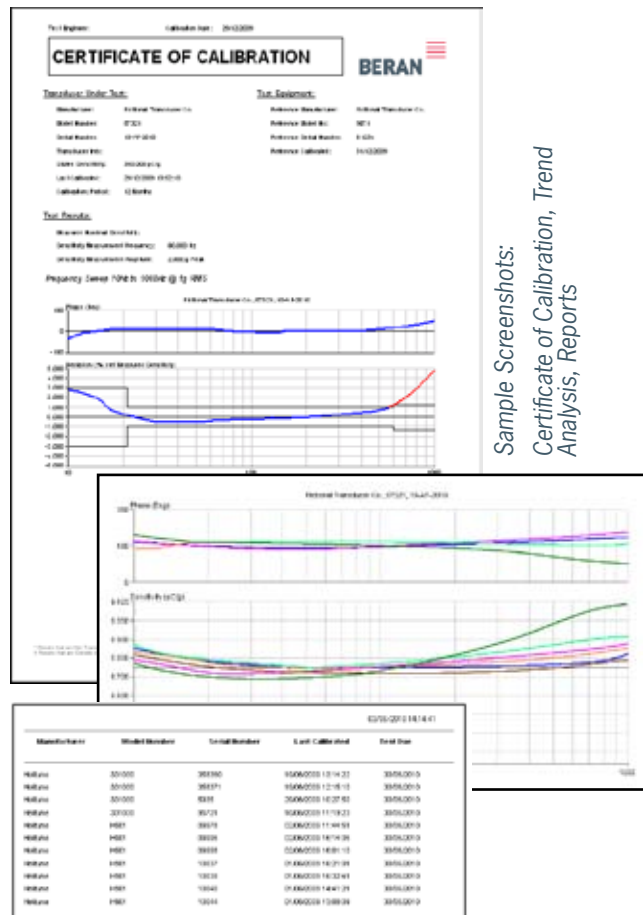
Access to profile creation, database management, and test modification can be restricted using the four-level access system, from System Operators to System Administrators.

Graph Overlay

Multiple historic test results may be selected and compared to identify a trend in parameter over a period of time, or to identify the quality of a batch of newly manufactured transducers, to assist with manufacturing.

Database Backup

Using industry standard techniques, your calibration database can be backed up.



Sample Screenshots:
Certificate of Calibration, Trend
Analysis, Reports

System Requirements

Operating System Microsoft® Windows XP, Windows Vista, and Windows 7.

Memory 1GB RAM (Minimum)
800MB Free Hard Disk Space

Peripherals CD-ROM Drive, RS232 Serial Port OR USB port with RS232 Converter

TransCal Requirements Beran 455
Beran 475

This document is not contractual. Beran maintain a policy of continuous product development and improvement. This specification may change without notice.

Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

Beran Instruments is registered to BS EN ISO 9001 / AS9100
PB-3234-01 Issue 1



Beran Instruments Ltd.
Hatchmoor Industrial Estate
Torrington, Devon EX38 7HP
United Kingdom

Phone +44 (0) 1805 624304
Fax +44 (0) 1805 624093
www.beraninstruments.com

Registered in England & Wales
Reg. No. 01802762
VAT Reg. No. GB 762 442 630

Beran USA
190 Gordon Street
Elk Grove Village
IL 60007, USA