ISC-T5001

AUTOMATIC MEASURING TAPE CALIBRATION SYSTEM

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MN-ISP-W3020-E

V0

1. System Introduction

Steel Tape Measure Test Data Management System as a set of a variety of test machines and one of the procedures, can be configured to access the current mainstream metrological calibration regulations related to test equipment, real-time data acquisition, automatic analysis of machine vision, data display, test results calculation, test report printing and data interfaces and other modules of the integration of the design, not only to support the localisation of the storage and analysis of test data, and It not only supports the localised storage and analysis of test data, but also realises the sharing and application of data through the external interface provided.

Software design to easy to use and beautiful as the goal, easy to use is the main pursuit of interaction design, beautiful is the main direction of the visual design, interaction design and visual design is completed, and ultimately rely on the programming to achieve a runnable software interface, to provide a more friendly software interaction experience.

The steel tape test data management system as a set of a variety of test machines and one of the procedures, can be configured to access the current mainstream metrological verification regulations

related to test equipment, with stable data acquisition, friendly interface interaction, rich data display, standardised experimental results and convenient report printing, not only supports the localisation of test data storage and analysis, but also through the provision of external interfaces can be achieved through the sharing and application of data. The following features can be achieved through the external interface;

1）Standard Windows interface style, simple and intuitive, friendly interaction, convenient and quick;

(2) Support a variety of test machines, can meet the needs of different users test;

(3) real-time acquisition of test data, test results are automatically generated, and equipped with graphical display;

(4) test data database management, support for a variety of data query mode, data backup in a timely manner to ensure safety;

(5) software with external data interfaces, effectively enhance the ability to share data;

multi-function testing machine combined with the national metrological verification procedures for a variety of materials corresponding to the test machine, designed for the test process, mainly includes: system setup, basic information, test samples

information, test data acquisition, real-time data display, test results analysis, report printing, statistical analysis, external data interfaces.

The steel tape measure calibration device belongs to the length class of calibration measuring instruments. The steel tape measure data management system integrates machine vision, automatically identifies the standard tape measure and the inspected scale line according to the picture, improves the identification accuracy and precision through machine vision optimisation, and automatically calculates the error, so as to realise the automated operation of the steel tape measure calibration. The calibration equipment has the incomparable advantages of mechanical calibration device, which greatly improves the testing accuracy and calibration efficiency. Special system for scientific analysis and management of testing results by computer.

2. The Installation Of The Use Of

double-click the steel tape test data management system installation package, pop-up installation interface as shown in the figure:

Click Next until the software installation is complete; after the installation is complete will be generated on the desktop shortcut

3. The System Logs On To

3.1 Login interface

system login page you can choose whether or not to remember the user's password, please ensure that the computer environment to ensure that the security of the use of the option ticked, or else caused by the loss of data or damage to the issue of Otherwise, data loss or damage caused by the problem will be difficult to repair.

3.2 System Home Page

system home page interface is friendly, the navigation menu contains all the functional modules of the system, you can achieve rapid selection of modules to jump;

test information page contains the test to be completed and the test has been completed information, you can view the current progress of the test at a glance, notification reminders can accurately prompt the user to test related information;

common site provides commonly used measurement of the relevant professional websites, easy to query information and test procedures, and allows the user to customise the test protocols. Common websites provide commonly used professional websites related to metrology, which is convenient for searching information

and test protocols, and allows users to customise the editing.

4. Test Management

4.1 Test Management

The test management module is mainly used for daily test operation management and data collection.

4.1.1 New test

New test page allows users to select the commissioning unit, sample information, and enter the test-related information to save the test document information for the later test according to the relevant test documents.

4.1.2 Test information

Click on the test information to expand the test information data box, so that users can check the test information to confirm whether the current test sample information is correct;

4.1.3 Test template

Click on the 'test template' in the main interface, click on the 'New' button to set the template. Click on 'Test Template' in the main interface, and then click 'New' button to set up the template. The newly created template can be copied, modified and deleted. In the template list, you can move up and down the order of

arrangement.

Measurement limit: 5 metres (according to the actual calibration requirements)

Number of testing points: 6

Number of testing times: 3

Testing 0.5 metres: no testing

Note: The newly created test template can be used according to the requirements of the steel tape measure testing to set up their own calibration needs, and after setting up, the later similar steel tape measure can be directly selected and used.

4.1.4 Data Acquisition

Select the test data file, directly import the test information and generate new test documents;

4.1.5 Data Saving

Save the current test document information as a test data file;

4.1.6 Query Report

Click to jump to the test results data query page:

4.1.7 Report Printing

Click and select the appropriate report to print the test data results

report;

4.1.8 Printing Preview

Click and select the appropriate report to pop up the report settings

management page: 4.1.9 Report Settings Click and select the

corresponding report to bring up the preview interface of the test

data result report:

4.1.9 Report Setting

Click to bring up the report setting management page, you can

manage the test report according to your needs;

4.1.10 Return to Home Page

Return to the home page of the test management system:

4.2 Report Printing

4.2.1 Recent Tests

Click to automatically filter today's completed test data:

4.2.2 All Tests

Click to automatically filter all test data:

4.2.3 Report Printing

Click and select the corresponding report to print the test data

result report;

4.2.4 Print Preview

Click and select the corresponding report to bring up the preview

interface of the test data report:

4.2.5 Report Settings

Click to bring up the report settings management page. Click to

bring up the report settings management page, you can manage

the test report according to your needs;

4.2.6 Statistical analysis

Automatically analyse whether the test result is qualified according

to the current test data content;

4.2.7 Return to test

4.2.8 Return to home page

Return to the management system home page.

4.3 Statistical analysis

4.3.1 Recent tests

Click to automatically filter today's test data:

4.3.2 All tests

Click to automatically filter all the test data:

4.3.3 Return to the home page

Return to the management system home page;

5. System Options

5.1 Basic Information

The basic information provides a list query interface and a detailed

data editing page:

5.1.1 Commissioning unit

list of commissioning units, commissioning unit details

5.1.2 Sample information

list of sample information, sample information details

5.1.3 Role information

list of role information, role information details

5.1.4 User information

list of user information, user information details 5.1.5 Log

information Log information contains user login and operation

information, which is convenient for system administrators to

record operations and trace operations in a timely manner; 5.1.6

Return Home Returns to the home page of the test system.

Detailed information

5.1.5 Log information

Log information contains user login and operation information,

which is convenient for system administrators to record operations

and trace operation contents in time;

5.1.6 Return to home page

Return to the home page of the test system;

5.2 Data Management

5.2.1 Data Backup

Backup all the data of the current test system into a file

5.2.2 Data Recovery

Select the system backup file and restore the system data to the

corresponding time node;

5.2.3 Data Merging

Select the system backup file and merge the data in the system

backup file with the data in the current database;

5.2.4 Returning to the Home Page

Returns to the home page of the test system.

5.3 System Settings

5.3.1 Basic Settings

Click to pop up the system basic settings page

5.3.2 Software Activation

Click to pop up the software activation page, whether the software is activated or not does not affect the use of the software, but affects the software operation and maintenance services;

5.3.3 Equipment Management

Click on the equipment management pop-up device management page, the user can select the main controller that needs to be operated to view or modify the corresponding information;

5.3.4 Return to Home Page

Return to the home page of the test system.

6. Others

6.1 Layout modification

Automatic alignment of the current page space of the test data management system:

6.2 Instructions for use

Click on the pop-up management system instruction manual

6.3 Exit the system

Click on the exit of the test data management system

7. Abnormalities

7.1 Abnormalities

When the system runs abnormally, please retain the equipment abnormal tips page and take a screenshot of the page, contact the operation and maintenance personnel to provide pictures to obtain software abnormalities processing help.

7.2 Abnormality Code

When the system runs abnormally, you can investigate and solve the abnormality problem according to the abnormality code table, and contact us to solve the problem if it cannot be solved.

number	Exception Code	Exception Description	Treatment
1	0001	Device connection abnormality	Checking device connection cables
2	0002	Device communication abnormality	Check that the system selects the same equipment model as the actual equipment
3	0003	Device data anomalies	Check for abnormalities in the data displayed by the device
4	0101	system anomaly	Restart the system
5	0999	Other errors	Keep the screenshot and seek help from Ops