

**INSTRUCTIONS FOR TESTING  
TELEGRAPH LINES AND THE  
TECHNICAL ARRANGEMENTS  
OF OFFICES, VOL. II**

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Instructions for testing telegraph lines and the technical arrangements of offices, Vol. II by  
Louis Schwendler

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**LOUIS SCHWENDLER**

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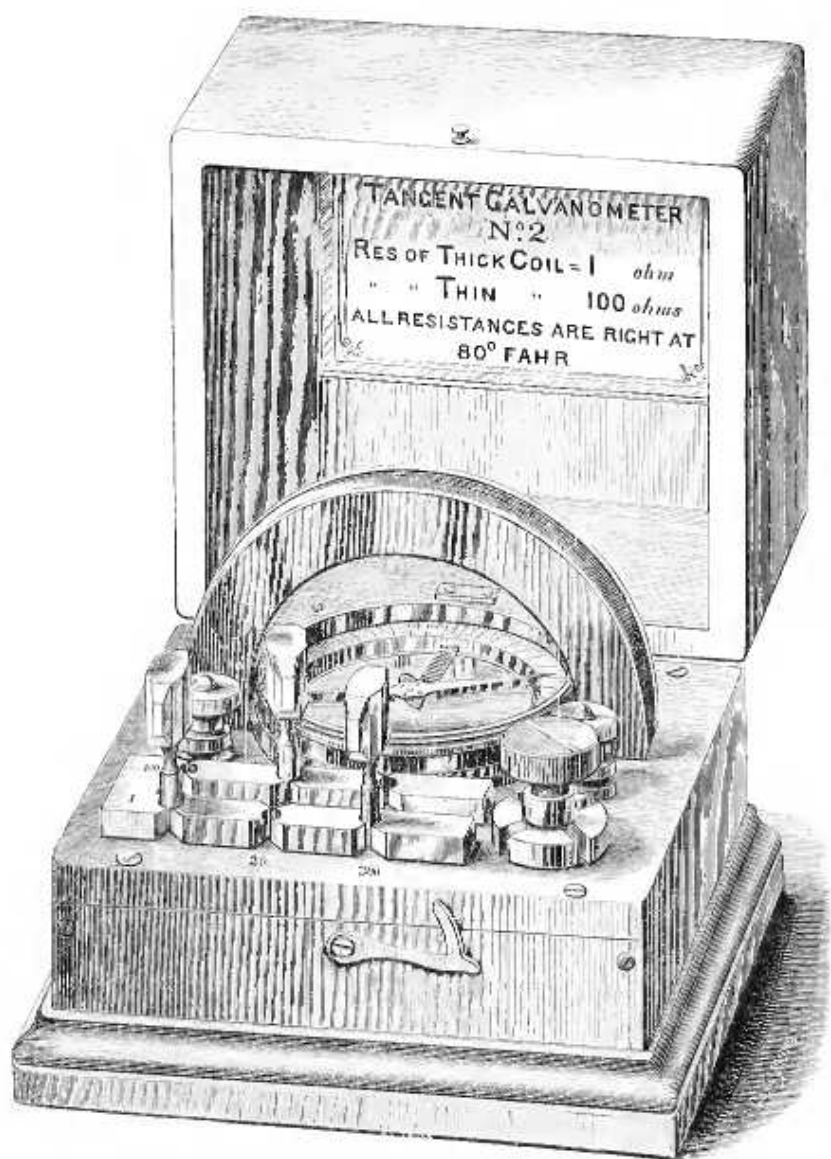
INSTRUCTIONS

FOR

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THE TANGENT GALVANOMETER.—P. 2.



INSTRUCTIONS  
FOR  
TESTING TELEGRAPH LINES  
AND THE  
TECHNICAL ARRANGEMENT OF OFFICES.

*ORIGINALLY WRITTEN ON BEHALF OF THE GOVERNMENT OF INDIA  
UNDER THE ORDERS OF THE DIRECTOR-GENERAL  
OF TELEGRAPHS IN INDIA.*

BY  
LOUIS SCHWENDLER.

VOL. II.

*Second Edition.*

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## INTRODUCTION.

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THE Introduction to the *first* volume of these *Testing Instructions* contains everything that it is necessary to know concerning the history and aim of the work at issue. Therefore I need only state here that the *second* volume is especially intended to supply *Testing information* to the officers in charge of Telegraph Stations, for whom the more complete but also more expensive Testing Apparatus (Bridge or Differential Galvanometer) is not made available; but who have to perform their Testing duties by the aid of the Tangent Galvanometer described in the beginning of the present volume.

The first and second Official Editions of my work (published in India by order of Government) contain some matters which, to a certain extent, are foreign to a book termed "Testing Instructions." The practical value of a work of this kind is manifestly its *compactness* and *straightforwardness* of solving Testing questions. I have thought it therefore better to leave out everything from the present *public* edition which does not refer to *Testing* pure and simple, and to add only such subjects as are not usually to be found in Text-books or elsewhere. In Appendices I have endeavoured to give some fuller information on some of the most important subjects treated in the text. That this book has little or no similarity to other works on Telegraphy, is simply due to the fact that it was written in order to