

**A FEW REMARKS UPON THE
CONSTRUCTION AND PRINCIPLES
OF ACTION OF THE ANEROID
BAROMETER; WITH OBSERVATIONS
ON THE MERCURIAL BAROMETR**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649240579

A few remarks upon the construction and principles of action of the aneroid barometer; with observations on the mercurial barometr by Charles Frodsham

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

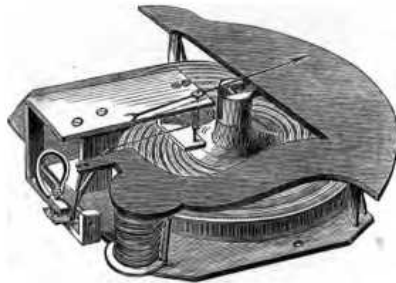
Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

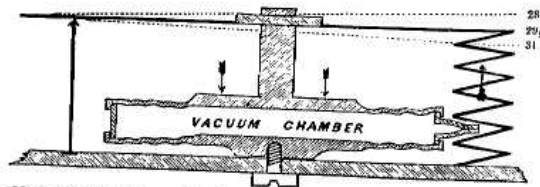
www.triestepublishing.com

CHARLES FRODSHAM

**A FEW REMARKS UPON THE
CONSTRUCTION AND PRINCIPLES
OF ACTION OF THE ANEROID
BAROMETER; WITH OBSERVATIONS
ON THE MERCURIAL BAROMETR**



View of the Interior.



Motion of the lever caused by changes of pressure upon the vacuum chamber.

A FEW REMARKS

UPON THE

CONSTRUCTION AND PRINCIPLES OF ACTION

OF THE

ANEROID BAROMETER,

WITH

OBSERVATIONS ON THE MERCURIAL BAROMETER,

BY

CHARLES FRODSHAM, F.R.A.S., Assoc. I.C.E.
CHRONOMETER, WATCH, AND CLOCK MAKER.



Arnold's,

84, STRAND, CORNER OF CECIL STREET.

LONDON:

PUBLISHED BY THE AUTHOR, 84, STRAND.

1849.

[Price One Shilling and Sixpence.]

CONTENTS

General remarks upon the Aneroid	7
Ingenuity of its Mechanism	8
Its Defects	9
Description and Mode of Action.....	•
How affected when the temperature is constant, and the pressure varies	10
How affected when the pressure is constant and the temperature varies	11
How compensation is produced	12
Effects of temperature upon the Watch, Clock, and Chronometer ..	•
Professor Lloyd's observations on the Aneroid	14
Dr. Arnott's account of the perfection of the Chronometer	17
Experiments with five Aneroids.....	20
Use of the Aneroid and table of heights.....	21
Means of measuring heights by the boiling point of water	22
Christensen's remarks upon the use of the barometer	23
The Mercurial Barometer, and defence of the Torricellian tube.....	26

P R E F A C E.

IN laying before the public the following remarks upon the ANEROID BAROMETER, the Author feels it necessary to state that, the instrument being a foreign patent, he can have no controul over its manufacture, and that consequently he does not hold himself responsible for its performance. Nevertheless, in order to lessen as much as possible the chance of a failure, the utmost caution and judgment will be exercised in the selection of such as will be found at his establishment. One of the author's aims has been to remove the mystery which appears to hang over the Aneroid, and to render those persons familiar with the instrument who may not have had an opportunity of becoming acquainted with its construction. He likewise hopes that by pointing out one or two of its trifling defects, other persons may be induced more thoroughly to investigate the nature of these imperfections, with the view of suggesting the means for their removal, and the ultimate perfection of the instrument. If this end be fortunately attained, the intention of the author will have been fully answered.

CHARLES FRODSHAM,
Arnott's, 84, Strand, London.

Just as the corrected proof was going to press, the observations on the Mercurial Barometer which are annexed at page 26, were put into my hand by a gentleman to whom a short time before I had read my manuscript. The opinions of a practical man ingeniously given, are at all times valuable, and as his remarks are strictly of that character, I have not hesitated, with his permission, to append them to my own.

