

# DIN EN ISO 8598-1:2015-01 (E)

## Optics and optical instruments - Focimeters - Part 1: General purpose instruments (ISO 8598-1:2014)

---

Contents	Page
Foreword .....	3
Introduction .....	4
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	5
4 Technical requirements for general purpose focimeters .....	7
5 Metrological requirements .....	9
5.1 General .....	9
5.2 Reference wavelength .....	9
5.3 Performance requirement .....	9
6 Test procedures .....	12
6.1 General .....	12
6.2 Checking the indication errors .....	12
6.3 Checking the axis marker for the optical centre of lens .....	12
6.4 Checking the alignment of the axis marker .....	13
6.5 Checking the adjusting rail .....	13
6.6 Checking the non-symmetric error for automated focimeters .....	13
6.7 Checking the repeatability of vertex power measurement for automated focimeters .....	14
6.8 Checking for the centration error .....	14
6.9 Checking the capability of focimeters to measure tinted lenses .....	14
6.10 Checking the astigmatic axis repeatability for low-powered cylinder lens .....	14
6.11 Special procedures for eyepiece focimeters .....	15
6.12 Criterion for image focusing in manual focusing focimeters .....	15
7 Marking .....	15
7.1 Reference to ISO 8598-1 .....	15
7.2 General information to be supplied by the manufacturer .....	15
7.3 Additional information to be supplied by the manufacturer .....	16
Annex A (informative) Use of correction values when measuring spectacle lenses .....	17
Annex B (informative) Example for evaluation of uncertainty of measurement for automated focimeters for general use .....	22
Annex C (normative) Specifications of special reference lenses .....	28
Annex D (informative) Information for users on the performance of general purpose focimeters covered by this part of ISO 8598 .....	30
Bibliography .....	31