

Interpretation Sheet 1

EN 55020:2007

English version

Foreword

This Interpretation Sheet to the European Standard EN 55020:2007 was prepared by the Interpretation Panel of the Technical Committee CENELEC TC 210, Electromagnetic compatibility (EMC). The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC on 2009-05-22.

Requirements for digital only receivers

In EN 55020:2007 the requirement for an immunity test is given in the "Applicability" column of Tables 2, 9, 10, 11 and 15. The requirements for digital only receivers (e.g. DAB or DVB-T only receivers) are not clear. Table 2 includes requirements for "Digital radio antenna" and "Digital TV antenna" receivers while other tables do not specifically mention such receivers.

Question:

What are the immunity requirements for digital only receivers ?

Interpretation:

Table 1 gives an overview of types of receivers. No specific distinction is made between analog or digital receiving technology. Also, digital receiving technology is included in the general definition of sound receivers and television receivers. Therefore, the types of receivers listed in the applicability tables may include digital receiving technology unless it is clearly excluded in the term used. For example, the term "FM radio antenna" defines an analog sound receiver and the term "TV antenna" refers also to a digital TV-receiver.

Following the interpretation above the requirements for digital only TV receivers are given under "TV antenna" receivers and for digital only sound receivers under "Digital radio antenna" receivers. The latter gives only requirements for screening effectiveness and ESD which is clearly not the intention of the standard. It was assumed that a digital sound receiver would always incorporate an analog FM tuner.

Digital only sound receivers (e.g. DAB only receivers) should therefore comply with the requirements of "FM radio antenna" receivers listed in the "Applicability" column of all relevant tables.

NOTE Test method in Table 2 "RF voltage Differential mode" for digital sound receivers is not yet specified in the standard. Therefore this test is not required for digital sound receivers.

Validity:

This interpretation remains valid until an amendment or updated standard dealing with this issue is published by CENELEC.
