

TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING
IEC 61347-2-7:2011, A1:2017 Edition 3.1
Lamp controlgear – Part 2-7: Particular requirements for battery supplied
electronic control gear for emergency lighting (self-contained)

“R”	Required
“S”	May be subcontracted, see OD 2012
“SP”	Specialized Facility, see IECEE 02-2
“W”	Witness testing in the categories “MED” and “MEAS”
“3PPS”	Three Phase Power Supply required

Clause	Measurement/testing	Testing / measuring equipment / material needed	Equipment Classification
15	Starting conditions	Cycling equipment, stopwatch, reference ballast	R
16	Lamp current	Reference ballasts, reference lamps, oscilloscope, climate control, power supply	R
17	Supply current	Reference lamps, d.c. power supply, V-meter, ammeter	R
18	Maximum current in any lead (with cathode preheating)	Reference lamps, requirements according to IEC60929 clause 11	R
19	Lamp operating current waveforms	Reference lamps, oscilloscope	R
20	Functional safety (EBLF)	Reference ballasts, reference lamps, test circuit corresponding to that of figure 1, stopwatch, LED load (LED modules or other suitable load), d.c. power supply, multimeter, ammeter	R
21	Change-over operation	Cycling equipment, a.c. v-meter	R
22	Recharging device	Requirements according to IEC 61558-2-1:2007, IEC 61558-2-6:2009 or IEC 61558-2-16:2009, as specified in 4.2 and 5.13 of IEC 61558-1:2017 R.m.s. v-meter, d.c. v-meter, cooling/heating chamber, temperature measuring device, electric strength tester, stop watch	S R
23	Protection against excessive discharge	D.C. v-meter, d.c. a-meter, stop watch	R
25.6	Temperature cycling test and endurance test	D.C. a-meter, stop watch, control gear with rest mode or inhibition mode	R
26	Temperature cycling test and endurance test	Cooling/heating chamber, d.c. power supply, d.c. v-meter, stop watch	R
27	Polarity reversal	Stop watch, voltmeter	R
29.1.2	Construction	Requirements according to IEC60598-2-22 Annex A	R

Clause	Measurement/testing	Testing / measuring equipment / material needed	Equipment Classification
34	Abnormal lamp conditions	Rectifier diodes, variable resistor, megaohmmeter, oscilloscope, voltmeter, dummy cathode resistors, power supply, stop watch, temperature recorder, high frequency spark generator	R