

ISO 7240-17:2020-02 (E)

Fire detection and fire alarm systems - Part 17: Transmission path isolators

Contents		Page
Foreword		v
Introduction		vi
1 Scope		1
2 Normative references		1
3 Terms and definitions		1
4 General requirements		2
4.1 Compliance.....		2
4.2 Integral status indication.....		2
4.3 Connection of ancillary devices.....		2
4.4 Monitoring of detachable transmission path isolators.....		3
4.5 Manufacturer's adjustments.....		3
4.6 On-site adjustments.....		3
4.7 Requirements for software-controlled transmission path isolators.....		3
4.7.1 General.....		3
4.7.2 Software design.....		3
4.7.3 Storage of programs and data.....		3
5 Tests		4
5.1 General.....		4
5.1.1 Atmospheric conditions for tests.....		4
5.1.2 Operating conditions for tests.....		4
5.1.3 Mounting arrangements.....		4
5.1.4 Tolerances.....		4
5.1.5 Functional test.....		4
5.1.6 Provision for tests.....		5
5.1.7 Test schedule.....		5
5.2 Reproducibility.....		6
5.2.1 Object.....		6
5.2.2 Test procedure.....		7
5.2.3 Requirements.....		7
5.3 Variation in supply voltage.....		7
5.3.1 Object.....		7
5.3.2 Test procedure.....		7
5.3.3 Requirements.....		7
5.4 Dry heat (operational).....		7
5.4.1 Object.....		7
5.4.2 Test procedure.....		7
5.4.3 Requirements.....		8
5.5 Cold (operational).....		8
5.5.1 Object.....		8
5.5.2 Test procedure.....		8
5.5.3 Requirements.....		9
5.6 Damp heat, cyclic (operational).....		9
5.6.1 Object.....		9
5.6.2 Test procedure.....		9
5.6.3 Requirements.....		10
5.7 Damp heat, steady state (endurance).....		11
5.7.1 Object.....		11
5.7.2 Test procedure.....		11

5.7.3	Requirements	11
5.8	Sulfur dioxide (SO ₂) corrosion (endurance)	11
5.8.1	Object	11
5.8.2	Test procedure	12
5.8.3	Requirements	12
5.9	Shock (operational)	12
5.9.1	Object	12
5.9.2	Test procedure	12
5.9.3	Requirements	13
5.10	Impact (operational)	13
5.10.1	Object	13
5.10.2	Test procedure	13
5.10.3	Requirements	14
5.11	Vibration, sinusoidal (operational)	15
5.11.1	Object	15
5.11.2	Test procedure	15
5.11.3	Requirements	15
5.12	Vibration, sinusoidal (endurance)	16
5.12.1	Object	16
5.12.2	Test procedure	16
5.12.3	Requirements	16
5.13	Electromagnetic Compatibility (EMC), Immunity tests (operational)	17
5.13.1	Object	17
5.13.2	Test procedure	17
5.13.3	Requirements	17
6	Test report	17
7	Marking	18
8	Data	18
8.1	Technical documentation for installation	18
8.2	Software documentation	19
Annex A (informative) Examples for the functional test procedure		20
Annex B (informative) Apparatus for impact test		28
Bibliography		30