

ISO 7240-22:2007-05 (E)

Fire detection and alarm systems - Part 22: Smoke-detection equipment for ducts

Contents		Page
Foreword		iv
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	General requirements	2
4.1	Compliance	2
4.2	Visual alarm indication	2
4.3	Connection of ancillary devices	3
4.4	Monitoring of detachable detectors	3
4.5	Manufacturer's adjustments	3
4.6	On-site adjustment of response behaviour	3
4.7	Marking	3
4.8	Data	4
4.9	Requirements for software-controlled smoke-detection equipment for ducts	4
5	Tests	5
5.1	General	5
5.2	Repeatability	8
5.3	Reproducibility	8
5.4	Variation in supply parameters	8
5.5	Dazzling	9
5.6	Dry heat (operational)	10
5.7	Cold (operational)	11
5.8	Damp heat, steady state (operational)	12
5.9	Damp heat, steady state (endurance)	12
5.10	Sulfur dioxide, SO₂, corrosion (endurance)	13
5.11	Shock (operational)	14
5.12	Impact (operational)	15
5.13	Vibration, sinusoidal (operational)	16
5.14	Vibration, sinusoidal (endurance)	17
5.15	Air leakage	18
5.16	Electromagnetic compatibility (EMC) immunity tests (operational)	19
5.17	Fire sensitivity	20
6	Test report	21
	Annex A (normative) Smoke tunnel and fire test room arrangement for response measurements	23
	Annex B (normative) Test aerosol for response threshold value measurements	24
	Annex C (normative) Smoke-measuring instruments	25
	Annex D (normative) Apparatus for dazzling test	29
	Annex E (normative) Apparatus for impact test	30

Annex F (informative) Air-leakage test apparatus	32
Annex G (normative) Smouldering (pyrolysis) wood fire (TF2)	33
Annex H (normative) Flaming plastics (polyurethane) fire (TF4)	35
Annex I (informative) Information concerning the construction of the smoke tunnel	37
Annex J (informative) Information concerning the construction of the measuring ionization chamber	40