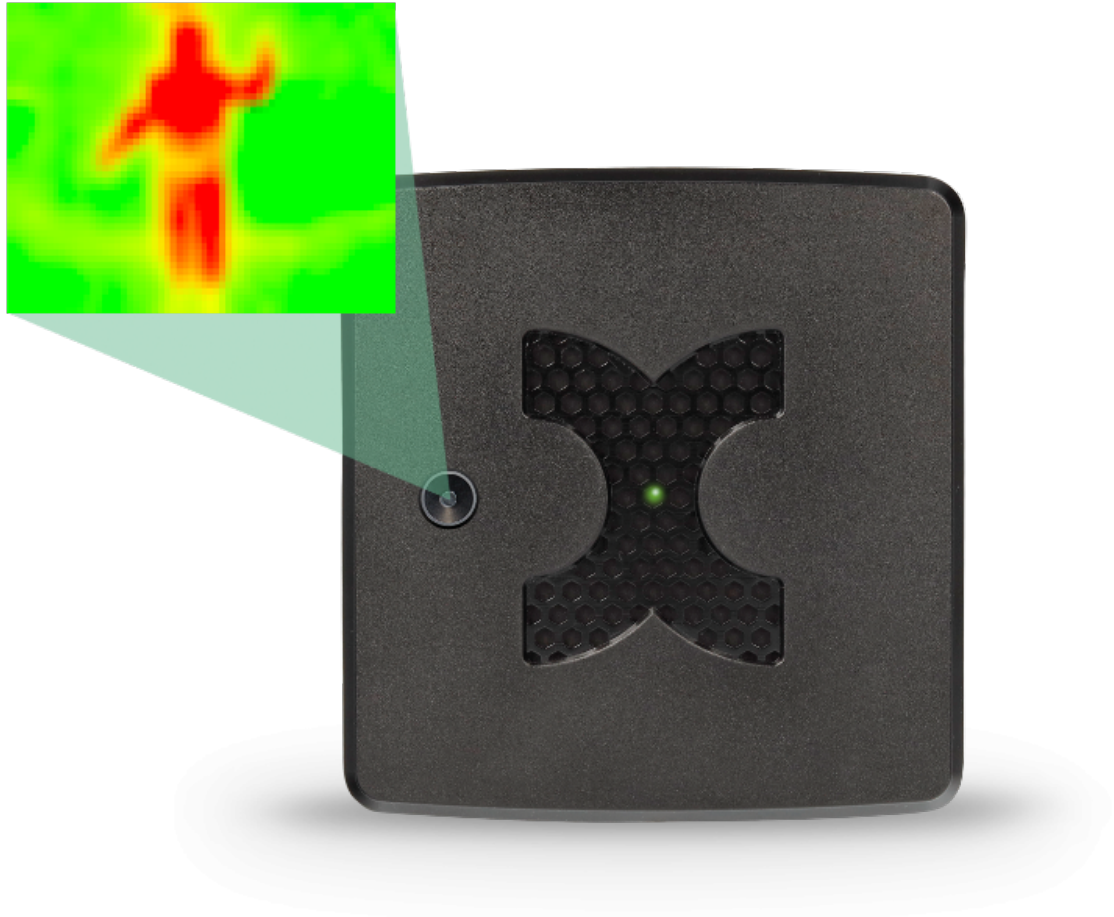


MultiSensor Thermal Image - DATASHEET



ORDER-CODES:

KMS-TI-90-B, KMS-TI-90-W, KMS-TI-90-B-BLE, KMS-TI-90-W-BLE, KMS-TI-40-B, KMS-TI-40-W, KMS-TI-40-B-BLE, KMS-TI-40-W-BLE

Function	MultiSensor for room/area monitoring and early fire detection
Integrated software	KentixONE via integrated web server (HTTPS)
Sensor - temperature	Measuring range -40 to 85°C (accuracy $\pm 0.5^{\circ}\text{C}$)
Sensor - Relative humidity	Measuring range 0 to 100% (accuracy $\pm 3\%$)
Sensor - dew point	Calculated in $^{\circ}\text{C}$
Sensor - IR Thermal Array	1024 pixel infrared array, measuring range -40 to 1,000°C, detection cone depending on type: 40° or 90°, range up to approx. 5m, Measurement: temperature image, movement/direction of movement, object detection

Sensor - Vibration	3-axis accelerometer with position detection (sensitivity adjustable), measuring range 0.25-5G
Sensor - Carbon monoxide (CO)	0-1,000ppm measurement \pm 10%Internal resolution: 20-1,000ppm (0-100%), lifetime 10 years
Sensor - Air Quality (VOC)	Measurement according to IAQ (Index for Air Quality), IAQ value 0-500 according to IAQ table*.
Sensor - air pressure	Measuring range 300 - 1,100hPa, altitude
Sensor - External alarm inputs	2 x alarm input (e.g. armed-active, continuous-active alarming)Wiring with potential-free contacts via separate KIO3 power adapter
Signal generator	85dB, 2.3kHz
External message outputs	2x signal output (e.g. armed-active alarm, continuous-active alarm) Wiring via separate KIO3 power adapter with relay outputs
LED	ALARM (red), RUN (green), LINK/ACT to LAN socket
Ethernet with PoE	10/100Mbit (Default IP: 192.168.100.222) Power supply via PoE Class 2, power consumption approx. 2W
SD card	Integrated Micro SD card holder as additional memory for image recording, up to 128 GB
SNMP	SNMP V2/3 (write/read), SNMP Traps (Simple Network Management Protocol)
ReST API	ReST API with JSON objects (HTTPS), webhooks with free data structure
KENTIX system socket	RJ45 jack for connecting external expansion modules
Housing	Material: PS 90 x 90 x 45 mm Weight approx. 100g Colors: White, Black
Environmental conditions	Temperature 0 - 50°C ; Ideally 18 - 24 °C Humidity 5-95%, non-condensing
Types	KMS-TI-40-B (Black housing, 40° optics) KMS-TI-40-W (White housing, 40° optics) KMS-TI-90-B (Black housing, 90° optics) KMS-TI-90-W (White housing, 90° optics)
Scope of delivery	Mounting bracket, mounting material, SlimLine cable 3m
Accessories	PoE Injector (KPOE150S) Power adapter with power supply (KIO3) Leakage sensor (KLS03)
Exams	CE

Thermal image sensor field of view

40° optics (ART: KMS-TI-40-B/W)

Measuring distance	Area	Measuring grid
1m	73 x 73cm (0,53sqm)	2,27 x 2,27cm
2m	145 x 145cm (2,12sqm)	4,55 x 4,55cm
3m	218 x 218cm (4,55sqm)	6,82 x 6,82cm
4m	291 x 291cm (9,10sqm)	9,10 x 9,10cm

90° optics (ART: KMS-TI-90-B/W)

Measuring distance	Area	Measuring grid
1m	200 x 200cm (4,00sqm)	6,25 x 6,25cm
2m	400 x 400cm (16,00sqm)	12,50 x 12,50cm
3m	600 x 600cm (36,00sqm)	18,75 x 18,75cm
4m	800 x 800cm (64,00sqm)	25,00 x 25,00cm

Measurement of air quality according to IAQ Index*

Air index	Air quality	Effects (long-term exposure)	Proposed measure
0 - 50	Excellent	Clean air; the best for the well-being	No measures required
51 - 100	Good	No irritation or effects on well-being	No measures required
101 - 150	Lightly soiled	Reduction of the well-being possible	Ventilation proposed
151 - 200	Moderately dirty	Clearer irritation possible	Increase ventilation with clean air
201 - 250	Heavily soiled	Depending on the type of VOCs, exposure can lead to effects such as headaches	Improve ventilation

251 - 350	Heavily soiled	More serious health problems possible if harmful VOCs are present	Contamination should be identified when level is reached even without people present; maximize ventilation & reduce presence
> 351	Extremely dirty	Headache, additional neurotoxic effects possible	Contaminants must be identified; avoid presence in the room and maximize ventilation