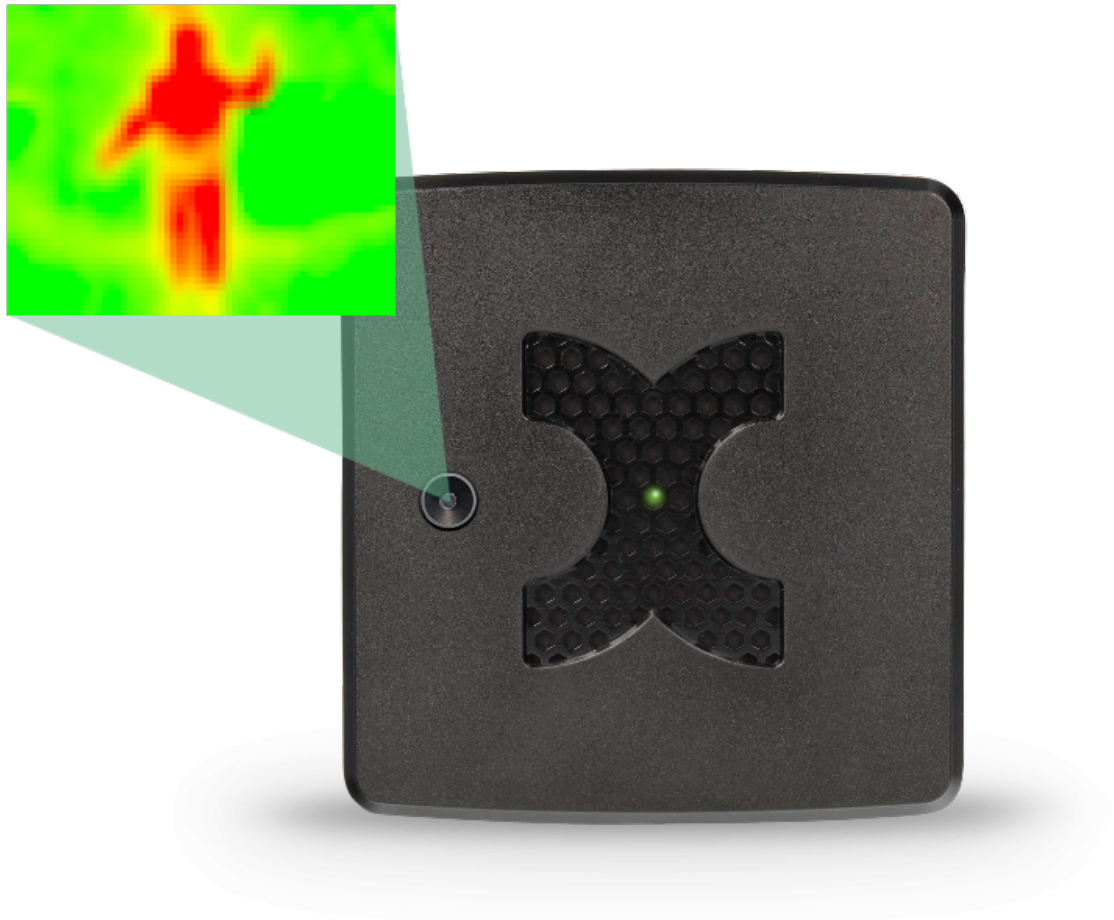


MultiSensor-Thermal Image - Datasheet



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 early fire detection and room/area monitoring
Integrated software	KentixONE via integrated web server (HTTPS)
Sensor - air 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 - surface temperature	1024 pixel infrared array with germanium glass optics, measuring range -40 to 1,000°C, detection cone depending on type: 40° or 90°, range up to approx. 5m, measurement: temperature image (32x32), movement NETD (Noise Equivalent Temperature Difference): approx. 150mK/1Hz
Sensor - Vibration	3-axis accelerometer with position detection (sensitivity adjustable), measuring range 0.25-5G
Sensor - Carbon monoxide (CO)	0-1,000ppm measurement ± 10%, internal resolution: 20-1,000ppm (0-100%), service life 10 years
Sensor - air quality (VOC, CO2)	Measurement according to IAQ (Index for Air Quality), IAQ value 0-500 according to IAQ table*.
Signal generator	85dB, 2.3kHz
External alarm inputs (KENTIX system socket)	2x alarm input (e.g. armed-active, continuous-active alarm), wiring with potential-free contacts via separate KIO3 IO adapter
External signal outputs (KENTIX system socket)	2x signal output (e.g. armed-active alarm, continuous-active alarm), wiring via separate KIO3 IO 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. 3W
Radio (BLE 2.4GHz) (according to version)	2.4GHz ISM band (BLE), 128-bit encryption
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
Housing	Material: PS 90 x 90 x 45 mm Weight approx. 100g Colors: White, Black
Environmental conditions	Temperature 0 - 50°C, humidity 5-95%, non-condensing
Versions	KMS-TI-40-B-BLE (Black housing, 40° optics) KMS-TI-40-W-BLE (White housing, 40° optics) KMS-TI-90-B-BLE (Black housing, 90° optics) KMS-TI-90-W-BLE (White housing, 90° optics) 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) IO adapter (KIO3) Leakage sensor (KLS03)
Certification	CE

Thermal image sensor field of view

40° optics (ART: KMS-TI-40-x-x)

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-x-x)

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