

KT100 INDUSTRIAL MONITOR SYSTEM

FEATURES

- Dual thermal and visual camera
- Secure connection to Kintronics Cloud
- I/O connections enable external sensors
- Low power consumption
- Optional connection to SCADA/GIS and asset management applications

KEY BENEFITS

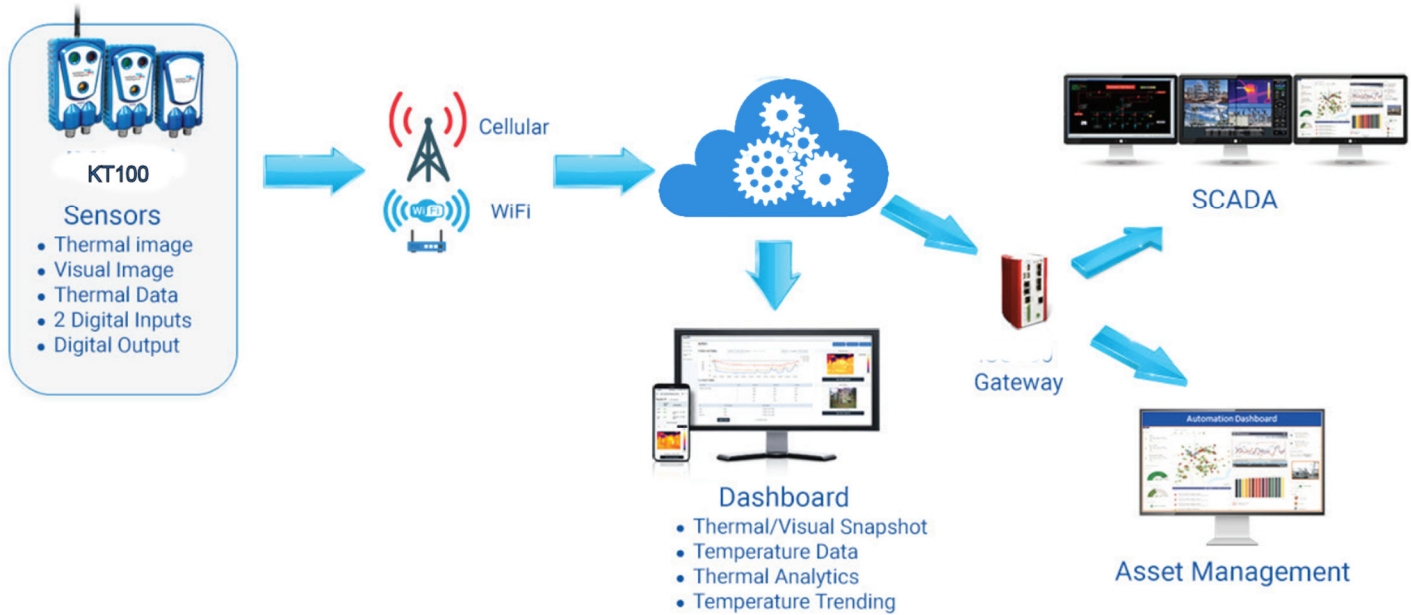
- High-reliability operation in extreme environments, low maintenance costs
- Simple to install and maintain
- Early detection of heat, flooding, tampering, etc., to prevent failures and outages
- Analytics provide real-time operator alerts
- Optimized data usage with adjustable polling rates

The KT100 Industrial module monitors and collects asset health data from remote sites. Thermal monitoring mitigates the risks of failure from overheating assets and connection points. Analytics detect anomalies and provide automatic warnings. The visual camera provides situational awareness in remote locations.

With externally connected sensors, the KT100 can enable flood warnings and other safety, environmental, and quality monitoring. Signals are transmitted securely from the device to a dashboard on a phone, laptop, or other platform. Remote updates ensure the firmware is current and enable customization of the devices.



INDUSTRIAL SENSOR ARCHITECTURE



DASHBOARD

- Monitor the site and control the remote sensor module
- Thermal trending of monitored assets
- Thermal and visual snapshots
- Configure thermal analytics and alarms

CONNECTED SENSORS

- Onboard I/O allows connection of external sensors
- Monitor water level, door closures, temperature etc.
- Adjust polling rates

COMMUNICATION

- Cellular wireless communications
- Secure encrypted WiFi connection to SWI cloud

UTILITY GRADE

- Designed for the harsh conditions found in electric power environments
- Immune to the effects of EMI, ESD and voltage surges and interrupts



Dashboard example



TECHNICAL SPECIFICATIONS

IM MODEL SPECIFICATIONS	
THERMAL	
Resolution	160 x 120 pixels
Detector Type	Uncooled Vox Microbolometer
Spectral range	8 to 14 μ m
Field of View (H)	57°
VISUAL CAMERA	
Resolution	800 x 600 pixels
Sensor	1/4" CMOS
Field of View (H)	54°
FLASH Light	LED, pulsed
NETWORK	
Network Options	<ul style="list-style-type: none"> Cellular LTE-M or LTE CAT1 WiFi IEEE 802.11 b/g/n
Software interface	SWI IoT Cloud
Camera Snapshot	Scheduled or Alarm triggered
Thermal reporting	Thermal box comparison Absolute temperature trigger
Thermal analytics	Up to 15m (49 ft) with 0.3 x 0.3m (1 x 1 ft) target
Others	IO control, Email, Map (location), Historical alarms, Camera Setup
DNP3 (optional)	via SWI CloudDNP setup

IO	
Digital Input	2 - wet contact (12VDC)
Solid State Relay	1 - 30VDC, 500mA
POWER	
Vin	12VDC nominal (9 to 14VDC)
Power consumption	~1W nominal (no flash)
Power Supply requirement	at least 5W per device
ENVIRONMENTAL	
IP Rating	IP67
Op. Temp	-15° C to 70° C
Storage Temp	-40° C to 85° C
MECHANICAL	
Dimensions	78.5mm x 126.5mm x 1.45 mm
Enclosure	UV resistant Plastic
Connector	M12 - 4 pin Power input M12 - 8 pin IO

DIMENSIONS Unit: inches (mm)

