

Sensor Solutions

ELSYS ERS
Temperature,
humidity, occupancy



Monitor indoor comfort and occupancy to evidence environmental performance and optimise building conditions.

- Temperature accuracy $\pm 0.2^\circ\text{C}$
- Humidity accuracy $\pm 2\% \text{ RH}$
- Multi-sensor data from a single device
- Battery life up to 10 years

Adeunis Delta P
Differential pressure (ΔP)



Track pressure drop across filters and ventilation systems to maintain airflow performance and reduce plant issues.

- Differential pressure range -500 to +500 Pa
- IP68-rated for plant rooms and HVAC environments
- Battery life greater than 10 years

EMU Professional II
Energy and power consumption across circuits or sites.



Accurately monitor energy use across circuits or sites to support billing, benchmarking, and targeted energy optimisation.

- MID Class B certified for compliant energy metering
- Measures energy and power at circuit or asset level
- Supports direct connection or external CTs

Milesight CT303/5
Current and electrical load on equipment/plant



Monitor plant electrical load to detect abnormal operation and support performance benchmarking.

- Non-intrusive clamp CT installation
- Continuous load and current monitoring
- Suitable for motors, pumps, and AHUs
- Retrofit-friendly design

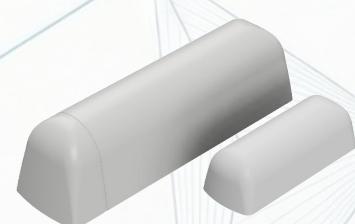
Tektelic VIVID
Desk / room occupancy via motion detection.



Understand how desks and rooms are actually used to inform space planning and service optimisation.

- Motion-based occupancy detection
- Designed for desks and shared spaces
- Privacy-safe, no cameras
- Highly scalable deployment

Elsys EMS Door
Door open/closed events



Analyse movement patterns in your building and identify unnecessary heat loss through frequently used doors.

- Wireless door usage monitoring
- Events captured via magnet switch and acceleration
- Suitable for any internal or external door

Sensor Solutions

Advantech WISE-2410
Vibration and temperature



Milesight VS350
Footfall and people movement



AS-202 Car Park IAQ
Carbon monoxide (CO), nitrogen dioxide (NO₂), temperature, humidity



Detect early signs of abnormal vibration in rotating equipment.

- 3-axis vibration sensing up to 1,000 Hz
- On-board signal processing for condition indicators
- IP66-rated rugged enclosure
- Designed for industrial environments

Understand building flow and peak usage to optimise layouts and shared spaces.

- Anonymous, privacy-safe people counting
- Suitable for high-traffic environments
- Enables trend analysis over time
- Supports capacity planning and space optimisation

Deploy in car parks to identify pollution hotspots, validate ventilation performance, and trigger alerts when air quality deteriorates.

A dedicated air quality sensor designed for car parks, providing visibility of pollutant build-up and ventilation effectiveness.

BMeters Hydrodigit M1
Water consumption



Use for tenant or zone-level water monitoring to improve visibility, reduce waste, and support billing or reporting.

- Digital display with 8 digits
- Available for cold and hot water applications
- Integrated communication module options: WM-Bus and/or LoRa

Elsys ELT

External inputs
(analogue/digital/pulse)



Use as a flexible “bridge sensor” to bring non-LoRa probes and meters into the platform for remote monitoring

- IP67 enclosure
- LoRaWAN certified
- Designed for outdoor mounting and harsh condition

Elsys ERS CO₂

CO₂, temperature, humidity, light, motion



Use to evidence ventilation and comfort, identify persistently poor IAQ zones, and support targeted HVAC adjustments based on real conditions.

- CO₂ + temperature + humidity + light + motion in one unit
- Wall-mount, indoor sensor format
- Wireless, battery powered
- Configuration via NFC

Sensor Solutions

L & G Heat Meters Heat energy consumption



Ultrasonic heat and cooling meter used to accurately quantify thermal energy consumption in building systems, residential and commercial circuits to support accurate billing, performance benchmarking, and efficiency validation.

MClimate Flood Flood/leak detection



Place under risers, plant rooms, comms rooms, kitchens or WCs to catch leaks early and trigger fast response before damage escalates.

- Instant flood detection on water contact
- Up to 10-year battery life

Milesight EM300 Rope Leak Flood/leak detection



Deploy along leak-prone routes to trigger alerts at the first sign of water and prevent outages or damage.

- Leak response time < 2 seconds
- IP67-rated enclosure
- Temperature accuracy $\pm 0.3^\circ\text{C}$
- Up to 5-year battery life

SenseCAP S2120 Weather Station



Use for on-site weather context to explain building performance trends against local outdoor conditions.

Air temperature, humidity, wind speed, wind direction, rainfall intensity, light intensity, UV index, barometric pressure.

Centrica PanPower Power Monitoring



Pinpoint wasted out-of-hours energy and abnormal plant runtime by tracking individual circuits in real time.

- Non-invasive clip-on current sensing (CT-based)
- Data transmission interval: every 10 seconds
- PAN-14 uses an external 0 to 5A CT for higher current ranges

Milesight WT101 TRV Temperature and heating regulation



Use for room-level heating optimisation to reduce energy waste and improve comfort without altering the whole building schedule.

- Temperature accuracy $\pm 0.5^\circ\text{C}$
- Supports up to 16 heating schedules
- Open-window detection
- Freeze protection function

Sensor Solutions

Milesight AM319 Formaldehyde
Indoor air quality including formaldehyde
(HCHO)



Evidence indoor air quality and pollutant risk in offices, schools, and shared spaces.

- 9-in-1 indoor ambience monitoring sensor
- Includes HCHO (formaldehyde) or O₃ level sensing (variant dependent)
- Real-time readings shown on an E-ink display
- Measures CO₂, PM2.5, PM10, TVOC plus comfort and motion

Milesight EM500-PT100
Temperature (PT100 probe)



Track extreme temperature ranges to protect stock, equipment, and compliance-critical spaces.

- Temperature range -200 °C to 800 °C (sensor family spec)
- Up to 10-year battery life (10-minute reporting cycle)
- Built for harsh environments with LoRaWAN transmission

+44 (0)1480 484999 | info@4dml.com

Book a free site consultation to discuss your building, goals, and priorities. If you do not see the exact sensor you need, we can source and install the right hardware as part of our service to support maximum efficiency, performance, and safety.

Sensor Solutions

The 4D Monitoring platform brings all sensor data into one secure online system, providing real time visibility of building performance across comfort, energy, space and asset health.



Live feed

View live sensor readings as they happen across your estate. The live feed shows current temperatures, energy use, pressures, air quality and more, helping teams identify issues immediately rather than relying on delayed reports or site visits.

Historical data and trends

Access both live and historical data from every connected sensor. This allows users to analyse trends over time, compare performance periods, and understand how buildings behave seasonally or operational

Alerts and notifications

Set automated alerts when readings move outside expected thresholds. Alerts help teams respond quickly to issues such as overheating, abnormal energy use or equipment drift before they escalate.