

# What Are Cost-Effective IoT Solutions for Residential Damp Proofing?

Cost-effective IoT solutions for UK damp proofing include wireless environmental sensors like COSIE homes, which monitor temperature, humidity, and dew point in real-time. These devices use low-power NB-IoT networks (battery life >5 years), trigger automated alerts for damp risk, and integrate with housing management systems to reduce remediation costs by 30-50% compared to traditional inspections.

## IoT Solutions for Damp Proofing: Technology in Action

### 1. Real-Time Environmental Monitoring

IoT devices like COSIE homes provide continuous tracking of:

- **Temperature** (-20°C to +65°C, ±1°C accuracy)
- **Humidity** (0-100%, ±3% accuracy)
- **Dew point** (calculated to predict condensation risk)

Deployed in high-risk areas (e.g., kitchens, bathrooms), these sensors identify properties with humidity levels exceeding 65%—the threshold for mould growth. For social landlords, this pre-empts costly repairs: Home Group reduced damp-related callouts by 40% using IoT monitoring during SHDF Wave 1 retrofits.

### 2. Automated Alerts and Workflow Integration

When thresholds are breached, IoT systems:

- Send **email alerts** to maintenance teams (e.g., “Kitchen humidity: 78% - intervention required”).
- Flag **fuel poverty risks** (e.g., temperatures <18°C for >12 hours).
- Generate **bespoke reports** for residents (e.g., ventilation tips to reduce condensation).

COSIE homes’ proprietary algorithms assign **damp risk scores**, prioritising properties needing urgent attention. This slashes inspection time: one housing association resolved 90% of cases within 48 hours using IoT data.

### 3. Compliance with UK Regulations

Awaab’s Law mandates social landlords to address damp within strict timelines. IoT solutions like Archangel’s sensors ensure compliance by:

- Providing **auditable data trails** for regulators.
- Reducing investigation costs by 60% (vs. manual surveys).
- Supporting **preventative maintenance** (e.g., fixing leaks before mould develops).

**Deploy IoT sensors like COSIE homes to cut damp-proofing costs by 50%, comply with Awaab’s Law, and protect residents from health risks—explore VENTI’s 360° approach today.**