

DATASHEET

TRI-SENSOR DETECTOR (CO, SMOKE, HEAT)

LW-DMCO-01

The Wireless Tri-Sensor Detector (CO, smoke, heat) is the latest in wireless multi-criteria detection technology. It is a fully intelligent device and compatible with all Argus wireless translator and expander modules. The detector combines CO sensing, dual-path smoke and heat detection technologies for unrivalled performance, maintaining high levels of unwanted alarm rejection. The device complies with EN54-31 (point detectors using a combination of smoke, carbon monoxide and optionally heat sensors) which considers 2 possible MT and NT operative modes. The MT mode requires at least 2 independent stimuli (eg smoke & CO, thermal & smoke) to get to a full alarm, whilst the NT operative mode allows a full alarm to be generated from a single stimulus. Our device offers various possible environmental profiles for each of the 2 modes, further improving nuisance rejection and guaranteeing the promptest fire detection. Utilising well-proven adaptive radio signal processing algorithms ensures that the highest levels of life safety and system reliability are achieved. Dual-mode magnet test facilitates highly efficient testing. Mode One disables any delays for rapid smoke can testing, Mode Two puts the device into alarm using internal electronic test algorithms.



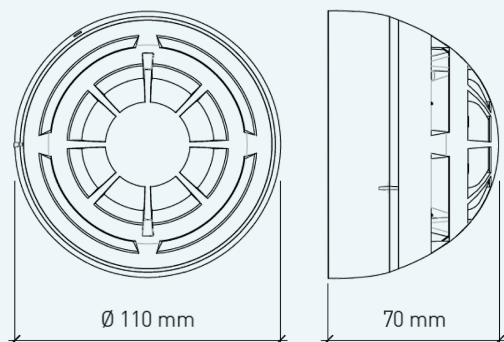
KEY FEATURES

- Dual angle scattering analysis optical chamber design
- Solid electrolyte carbon monoxide sensor (10 years life)
- Internal algorithm processing optimises performance
- 12 profiles available, from harsh/industrial to ultra-clean environments
- Utilises standard low cost lithium battery technology
- 8 year battery life
- Bi-directional communication protocol between all wireless devices
- Device identification tab
- Fast magnet test feature for engineer testing
- Twin alarm LEDs for 360° visibility

TECHNICAL SPECIFICATION

Operating frequency range	868 MHz
Max radiated power	14dBm (25mW)
Operating frequency channels	Multiple
Choice of sensitivity settings	MT & NT operative modes
Dimensions (H x W)	110 x 70 mm
Weight	200 g
Batteries	2xCR123A
Battery life	8 years
Operating temperature range (no icing)	-10°C to +55°C
Maximum tolerated humidity (non condensing)	95% RH
IP Rating	40
Magnet test	Yes

TECHNICAL INFORMATION



STANDARDS & APPROVALS

- EN 54-5: Heat detectors - Point heat detectors
- EN 54-7: Smoke detectors - Point smoke detectors that operate using scattered light, transmitted light or ionization
- EN 54-25: Components using radio links
- EN 54-31: Multi-sensor fire detector - Point detectors using a combination of smoke, monoxide and optionally heat sensors

