

HLR 200M Inlet Sensor

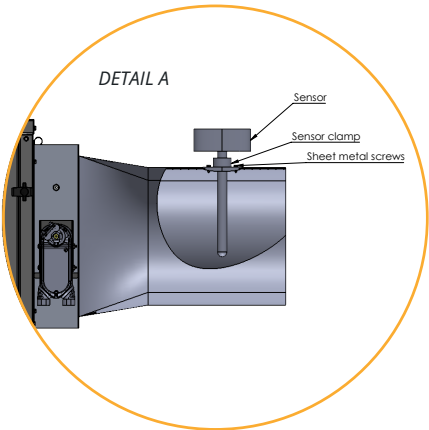
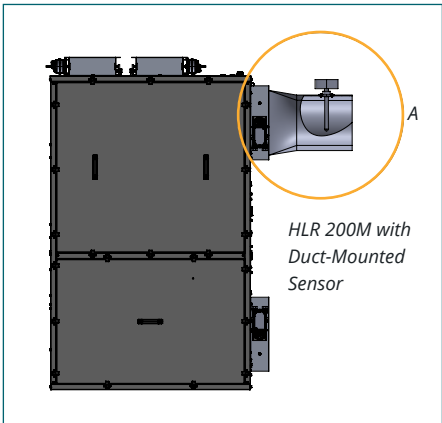
Indoor Air Quality Sensor with BACnet Compatibility



Indoor Air Quality Monitoring with Building Systems

The HLR 200M Inlet Sensor measures carbon dioxide (CO₂), total volatile organic compounds (TVOC), temperature and humidity in the return air from the areas served by the HLR module. The Inlet Sensor is a high-quality, maintenance-free digital sensor with both automatic and manual calibration capabilities. It measures CO₂ levels between 0 and 5000 ppm and reports TVOC with a 0-100% range.

The optional, duct-mounted sensor is installed on the HLR 200M's Return Air Inlet and connected to the CIPer controller using the supplied cabling and factory-installed USB adapter. The CIPer controller is field-configurable to display the sensor readings and all measured values are available to building systems over BACnet IP. Detailed setup instructions are in the HLR 200M installation guide.



Data points	Total volatile organic compounds (TVOC), carbon dioxide (CO ₂), temperature, and relative humidity
Measuring range, CO ₂	0-5000 ppm
Measuring accuracy, CO ₂	Typically ± 30 ppm ± 3% of measured value
Sensor, CO ₂	Optical NDIR sensor (non-dispersive infra-red technology) with automatic and manual calibration
Measuring range, VOC	0 -100% air quality; referred to calibrating gas; multi-range switching VOC sensitivity low, medium, high
Measuring accuracy, VOC	±20% of final value (referred to calibrating gas)
Sensor, VOC	VOC sensor (metal oxide) with automatic calibration (VOC = volatile organic compounds)
Response time	< 2 minutes
Service life	> 60 months (under normal load conditions)
Housing dimensions	5.0 x 3.5 x 2.0" (126 x 90 x 50 mm)
Long-term stability	< 2 % in 15 years
Protection class	III (according to EN 60 730)
Protection type	IP 65 (according to EN 60 529)-housing only
Standards	CE conformity, EMC according to EN 61 326, EMC Directive 2014/30/EU

For full specifications, visit https://spluss.de/fileadmin/assets/KFTM-LQ-CO2-Modbus_GB-safe.pdf