

Smart Intellisens Combo Multi-Gas Detection System

**Comprehensive Detection.
Intelligent Design.
Proven Safety.**

The Schauenburg Smart Intellisens Combo Instrument is an advanced multi-gas and environmental monitoring system engineered for accurate, continuous detection of hazardous gases and atmospheric conditions in both industrial and underground mining environments.

Built for flexibility, reliability, and safety, the Combo system features field-swappable sensor pods that allow for quick replacement or reconfiguration for different gas types, eliminating calibration downtime and reducing maintenance effort. This modular approach ensures maximum uptime and adaptability across a variety of operational requirements.

Seamlessly integrating with SCADA and IoT platforms, the Smart Intellisens Combo provides real-time monitoring, data logging, and alarm management via RS485 and 4–20mA interfaces. These connections offer long-distance, interference-resistant communication for consistent data transmission. A built-in I/O module enables stand-alone operation, making the system ideal for both centralized and distributed network configurations.



Smart Intellisens Combo

Data Sheet

The Smart Intellisens Combo continuously logs data over a 24-hour cycle, securely stored on an encased SD card for long-term retention, easy access, and compliance reporting. Certified for Intrinsic Safety (IS), the system is approved for use in underground and other hazardous environments. Its interactive LED display provides clear local readings, while 360° LED alarm indicators ensure immediate visual alerts from any angle.

Designed with versatile mounting options and a rugged modular housing, the Combo Instrument delivers exceptional performance and durability for comprehensive gas detection and environmental monitoring in demanding conditions.

OPTIONAL ENVIRONMENTAL PARAMETERS

- Temperature (Wet & Dry Bulb)
- Relative Humidity
- Barometric Pressure
- Air Velocity and Direction

SMART INTELLISENS COMBO DATA SHEET

SPECIFICATIONS	
Gas Sensor Selection	SO ₂ , H ₂ S, EX, O ₂ , CO ₂ , CH ₄ , CO, NO, NO ₂ , NH ₃ (Other gases can be requested)
Environmental Sensors	Temperature (Wet & Dry Bulb), Humidity Barometric Pressure, Air Velocity and Direction
Current protection	Over-voltage, Lightning, Short Circuit and Reverse Connection
Response time	<30S
Power supply	DC12-24V±15%
Working temperature	-20°C~50°C
Communication	4-20mA, RS485
Working humidity	0-95%RH (no dew)
IP Rating	IP65 or IP67
Installation method	Wall Bolt Mounted Hanging Cable Mounted
Shell material	Polycarbonate
Linear Error	≤±1%F.S
Accuracy	≤±1%F.S
Dimensions	173*260*412.66mm(L*W*H)
Weight	4kg