# ST350 Gas Detector (R134a, 0-1000 ppm, Aluminium, LCD)

| Product reference | |
|---|---|
| Part No. | 5150083-00A |
| Manufacturer | Consilium / Salwico |
| Model | ST350 |




## Product overview

ST350 industrial gas detector ordered as R134a, 0-1000 ppm, Aluminium, LCD. Original manufacturer ST350 family example; exact housing, LCD and remote configuration depend on the ordered Part No. Other calibrations must be specified when ordering.

## Technical specifications

| | | | |
|---|---|---|---|
| Part no. | 5150083-00A | Power supply | 17.5-24 V DC; maximum 120 mA. |
| Model | ST350 | Load impedance | Maximum 400 Ω at 24 V DC. |
| Product type | Gas detector. | Outputs | 4-20 mA; RS485 Modbus RTU half-duplex; 2 mA system failure; >20 mA over range. |
| Compatible systems | CGD50/500; CGS50/500. | Signal cable | 3-wire shielded; 0.75-2.5 mm². |
| Gas type | R134a | Cable gland | Aluminium housing: Brass; M20×1.5. |
| Range | 0-1000 ppm | Operating temperature | -10 °C to +50 °C. |
| Material | Aluminium | Ingress protection | Enclosure IP66; sensor IP6X. IP ratings do not imply gas detection during or after exposure to those conditions. |
| Version | LCD | Relative humidity | 15-95% RH, non-condensing. |
| Sensor type | BUSENS D, type SCF. | Pressure range | 700 to 1300 hPa. |
| Calibration | Family default calibration: Freon R134a (SCF). Other calibrations must be specified when ordered. Configured gas/range are listed separately. | Enclosure material | Aluminium with coating. |
| General description | All-round industrial gas detector with replaceable BUSENS D gas sensor; SCV and SCF sensor versions. | Dimensions | 179 × 189 × 107 mm (H × W × D). |
| Family detection scope | Aromatic hydrocarbons and synthetic refrigerant gases (H)CFKs and HFKs. | Weight | 1.5 kg ±5% (Aluminium). |
| SCV sensor suitability | Aromatic hydrocarbons at ppm level, including toluene and xylene, and chemical-industry gases such as carbon disulfide. | Enclosure gas sensor | SS316. |
| SCF sensor suitability | Synthetic refrigerants (H)CFKs and HFKs, including R134a, R407c and R1234yf. | Certification | ATEX Directive 2014/34/EU; EMC Directive 2014/30/EU; current validity unknown. |
| ATEX / IECEx scope | ATEX / IECEx approved; current certificate validity unknown. | ATEX approvals | II 2G Ex d IIC T6 Gb; II 2D Ex tb IIIC T85°C Db. |
| Control interface | Family LCD-version feature: Capacitive key control similar to a touchscreen; no additional tools required. | IECEx approvals | Ex d IIC T6 Gb; Ex tb IIIC T85°C Db. |
| Self-diagnostics | Included. | Mounting | Vertical position with sensor pointing downwards. |
| Splashguard | Included. | Installation clearance | At least 11 cm free space below the sensor head for splashguard removal and bump-test hose connection. |
| User menu | Family LCD-version feature: Zero and span calibration, alarm set-point adjustment, set-point display, diagnostics, and 4-20 mA output simulation. | Applications | Refrigeration; soil remediation; painting and printing ink industries; spraying booths and dry cabins; shipping; storage of dangerous goods; chemical industry. |
| Password protection | Family LCD-version feature: User menu secured with a password. | Optional accessories | Inline flow adapter 5150228-00A; protective hood 5150226-00A; isolation set EMC/RFI 5150231-00A; protective bracket 5150225-00A; conical collector hood 5150230-00A. Optional; not assumed standard. |

| | | | |
|---|---|---|---|
| Display | Digital graphic display with backlight. | Spare gas sensors | BUSENS D SCV 5150232-00A and BUSENS D SCF 5150233-00A; range/calibration dependent. |
| Status LED | Green: OK; red: alarm; yellow: system failure. | | |